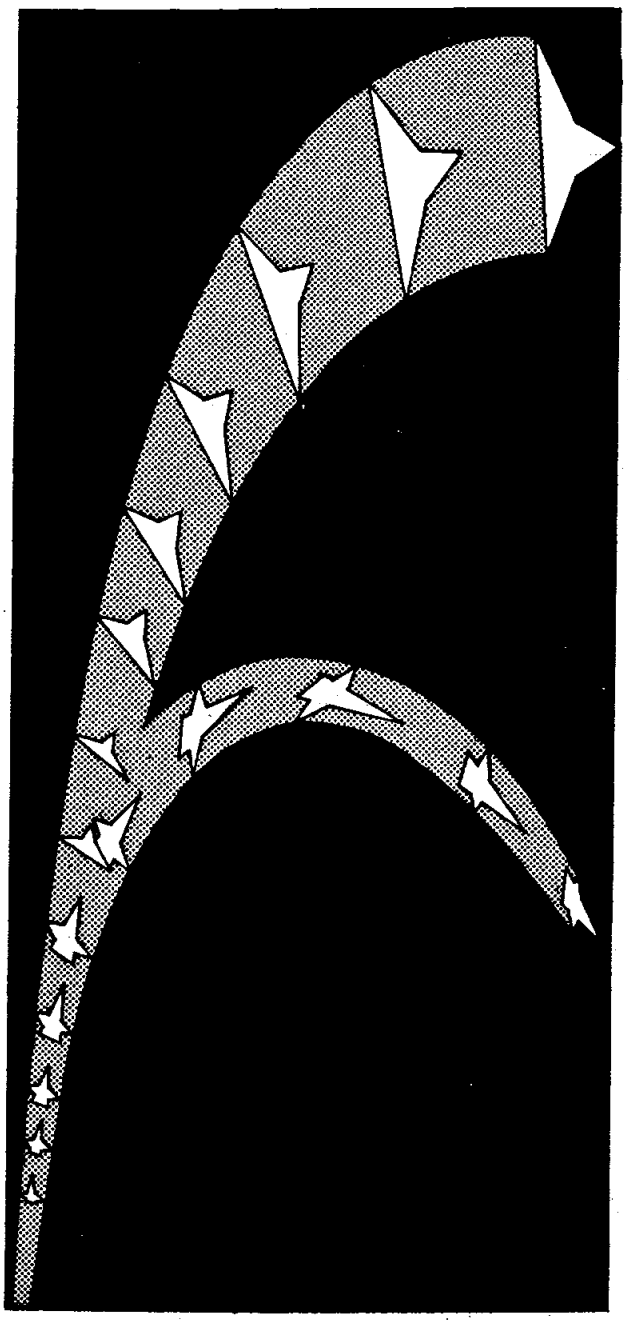
DMS-DR-2006
CR-120,088
DECEMBER 1972



SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION CHRYSLER CORPORATION

—SPACE SHUTTLE—

AERODYNAMIC STATIC STABILITY AND CONTROL EFFECTIVENESS OF A PARAMETRIC SHUTTLE LAUNCH CONFIGURATION

by

Paul E. Ramsey, NASA/MSFC

MSFC 14X14-INCH
TRISONIC WIND TUNNEL

Marshall Space
Flight Center

NASA

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SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: NASA/MSFC/NR ATP PARAMETRIC LAUNCH VEHICLE

TEST PURPOSE: STATIC STABILITY AND CONTROL EFFECTIVENESS OF A PARAMETRIC LAUNCH VEHICLE

TEST FACILITY: NASA/MSFC 14 x 14 - INCH TRISONIC WIND TUNNEL

TESTING AGENCY: NASA/MSFC

TEST NO. & DATE: MSFC TWT 556; OCT. 11 - OCT. 19, 1972

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CONTRACT NAS8-4016 AMENDMENT 174 DRL 297 - 84a

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AERODYNAMIC STATIC STABILITY AND CONTROL EFFECTIVENESS OF A PARAMETRIC SHUTTLE LAUNCH CONFIGURATION

By Paul E. Ramsey

ABSTRACT

Experimental aerodynamic investigations were conducted in the NASA/MSFC 14-inch Trisonic Wind Tunnel from Oct. 11 to Oct. 19, 1972 on a 0.004-scale model of the NR ATP baseline Shuttle launch configuration. The test model consisted of the NR ATP baseline orbiter, external tank, and SRB's with nozzels. Six component aerodynamic force and moment data were recorded over an angle of attack range from -10° to 10° at zero degrees sideslip and angle of sideslip range of -10° to 10° at zero angle of attack for a Mach range of 0.6 to 4.96. Rudder flare was constant at 10° during the entire test.

The purpose of the test was to define the performance, stability, and control characteristics of the launch configuration as well as to investigate the buildup effect of two geometrical parameters. The geometrical parameters were: the external tank nose shape and the abort solid rocket motor for the orbiter. Consideration of the external tank nose shape consisted of 20°, 30°, and ogive nose cones. The abort solid rocket motors were investigated as to their effect on or off the orbiter.

NOMENCLATURE

General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound;m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(SPF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
		mass density; kg/m^3, $slugs/ft^3$

Reference & C.G. Definitions

A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
XCG	XMRP	moment reference point on X axis, measured from external tank base
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
	free stream

NOMENCLATURE
(CONTINUED)

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$; $(C_{A_{B_O}} + C_{A_{B_S}} + C_{A_{B_E}})$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

ADDITIONS TO NOMENCLATURE
FOR
MSFC TEST 556

SYMBOL	SADSAC SYMBOL	DEFINITION
δ	DELTA	control surface deflection angle; deg., positive deflections are;
δ_a	AILRON	aileron - left aileron trailing edge down
δ_e	ELEVTR	elevator - trailing edge down
δ_r	RUDDER	rudder - trailing edge to the left
δ_{rf}	RUDFLR	rudder flare
ϕ_s	PHI	solid rocket booster (SRB) circumferential position angle, measured from the external tank horizontal centerline; degrees
ℓ_B	LBODY	orbiter body length; in, ft, m
i_o	ORBINC	orbiter incidence angle with relation to external tank, positive when tail down; deg.
C_{N_α}	D(CN)	$\left(\frac{dc_N}{d_\alpha}\right)$ the change in normal force coefficient with varying angle of attack, 1/deg.
C_{m_α}	D(CLM)	$\left(\frac{dc_m}{d_\alpha}\right)$ the change in pitching moment coefficient with varying angle of attack, 1/deg.
C_{y_β}	D(CY)	$\left(\frac{dc_y}{d_\beta}\right)$ the change in side force coefficient with varying sideslip angle, 1/deg.
C_{n_β}	D(CYN)	$\left(\frac{dc_n}{d_\beta}\right)$ the change in yawing moment coefficient with varying sideslip angle, 1/deg.
C_{ℓ_β}	D(CBL)	$\left(\frac{dc_\ell}{d_\beta}\right)$ the change in rolling moment coefficient with varying sideslip angle, 1/deg.
$C_{N@\alpha=0^\circ}$	CNAFϕ	the normal force coefficient measured at an angle of attack of zero degrees
$C_{m@\alpha=0^\circ}$	CLMAFϕ	the pitching moment coefficient measured at an angle of attack of zero degrees
$C_{A_F@\alpha=0^\circ}$	CAFAFϕ	the forebody axial force coefficient measured at an angle of attack of zero degrees

ADDITIONS TO NOMENCLATURE
FOR
MSFC TEST 556 (CONTINUED)

SYMBOL	SADSAC SYMBOL	DEFINITION
$C_{A_B}{}^{@\,\alpha=0^\circ}$	CABAFØ	the base axial force coefficient measured at an angle of attack of zero degrees
$C_{A_{B_O}}$	CABØ	the base axial force coefficient of the orbiter
$C_{A_{B_S}}$	CABS	the base axial force of the two 156-inch diameter SRB (solid-rocket booster)
$C_{A_{B_E}}$	CABE	the base axial force of the external tank
$\left(\frac{X_{AC}}{\ell_B}\right)$	XAC/L	the longitudinal position of the aerodynamic center or neutral point of static longitudinal stability as a fraction of orbiter body length, measured from the external tank base $\left[XCG/\ell_B + (C_{m_\alpha}/C_{N_\alpha})\,(\ell_{ref}/\ell_B)\right]$
$\left(X_{C_P}/\ell_B\right)$	XCP/L	the longitudinal position of the center of pressure of static longitudinal stability on percent orbiter body length, measured from the external tank base $\left[\frac{XCG}{\ell_B} + \left(\frac{C_m}{C_N}\right)\left(\frac{\ell_{ref}}{\ell_B}\right)\right]$
$\left(Y_{AC}/\ell_B\right)$	YAC/L	the longitudinal position of the aerodynamic center or neutral point of static lateral stability, as a function of orbiter body length, measured from the external tank base; $\left[\frac{XCG}{\ell_B} + \left(\frac{C_{n_\beta}}{C_{y_\beta}}\right)\left(\frac{b}{\ell_B}\right)\right]$
$\left(Y_{C_P}/\ell_B\right)$	YCP/L	the longitudinal position of the center of pressure of static lateral stability on percent orbiter body length, measured from the external tank base; $\left[\frac{XCG}{\ell_B} + \left(\frac{C_n}{C_y}\right)\left(\frac{b}{\ell_B}\right)\right]$

ADDITIONS TO NOMENCLATURE
FOR
MSFC TEST 556 (CONTINUED)

SYMBOL	SADSAC SYMBOL	DEFINITION
$C_{N_{\delta_e}}$	DCN/DE	$\left(\frac{dc_N}{d\delta_e}\right)$ the change in normal force coefficient with changes in elevator deflection, 1/deg
$C_{N_{\delta_a}}$	DCN/DA	$\left(\frac{dc_N}{d\delta_a}\right)$ the change in normal force coefficient with change in aileron deflection, 1/deg
$C_{N_{\delta_r}}$	DCN/DR	$\left(\frac{dc_N}{d\delta_r}\right)$ the change in normal force coefficient with change in rudder deflection, 1/deg
$C_{m_{\delta_e}}$	DCLMDE	$\left(\frac{dc_m}{d\delta_e}\right)$ the change in pitching moment coefficient with changes in elevator deflection, 1/deg
$C_{m_{\delta_a}}$	DCLMDA	$\left(\frac{dc_m}{d\delta_a}\right)$ the change in pitching moment coefficient with changes in aileron deflection, 1/deg
$C_{m_{\delta_r}}$	DCLMDR	$\left(\frac{dc_m}{d\delta_r}\right)$ the change in pitching moment coefficient with changes in rudder deflection, 1/deg
$C_{Y_{\delta_a}}$	DCY/DA	$\left(\frac{dc_y}{d\delta_a}\right)$ the change in side force coefficient with change in aileron deflection, 1/deg
$C_{Y_{\delta_e}}$	DCY/DE	$\left(\frac{dc_y}{d\delta_e}\right)$ the change in side force coefficient with change in elevator deflection, 1/deg
$C_{Y_{\delta_r}}$	DCY/DR	$\left(\frac{dc_y}{d\delta_r}\right)$ the change in side force coefficient with change in rudder deflection, 1/deg
$C_{n_{\delta_a}}$	DCYNDA	$\left(\frac{dc_n}{d\delta_a}\right)$ the change in yawing moment coefficient with change in aileron deflection, 1/deg
$C_{n_{\delta_e}}$	DCYNDE	$\left(\frac{dc_n}{d\delta_e}\right)$ the change in yawing moment coefficient with change in elevator deflection, 1/deg
$C_{n_{\delta_r}}$	DCYNDR	$\left(\frac{dc_n}{d\delta_r}\right)$ the change in yawing moment coefficient with change in rudder deflection, 1/deg
$C_{\ell_{\delta_a}}$	DCBLDA	$\left(\frac{dc_\ell}{d\delta_a}\right)$ the change in rolling moment coefficient with change in aileron deflection, 1/deg
$C_{\ell_{\delta_e}}$	DCBLDE	$\left(\frac{dc_\ell}{d\delta_e}\right)$ the change in rolling moment coefficient with change in elevator deflection, 1/deg
$C_{\ell_{\delta_r}}$	DCBLDR	$\left(\frac{dc_\ell}{d\delta_r}\right)$ the change in rolling moment coefficient with changes in rudder deflection, 1/deg

CONFIGURATIONS INVESTIGATED

Test results reported herein were obtained on a 0.004 scale model of the NR ATP Baseline Launch Configuration. Each of the model components tested is listed below. Pertinent dimensional data for these components are given in Table III.

MODEL COMPONENT SYMBOL	DESCRIPTION
O_1	NR ATP baseline orbiter less ASRM (abort solid rocket motors); $(B_1C_1D_1F_1M_1)$ (W_1E_1) $(V_1K_1R_1)$
O_2	NR ATP baseline orbiter with ASRM (abort solid rocket motors); $(B_1C_1D_1F_1M_1)$ (W_1E_1) $(V_1K_1R_1)$ (A_1)
T_1	318-inch diameter (full scale) external tank with 30° nose cone and retro-rocket (ATP baseline)
T_2	318-inch diameter (full scale) external tank with 22° nose cone and retro-rocket
T_3	318-inch diameter (full scale) external tank with ogive nose cone and retro-rocket
S_1	Two 156-inch diameter (full scale) SRB (solid-rocket booster) with 17° nose cone and hold down arms (ATP baseline)

Orbiters O_1 and O_2 both maintained a rudder flare of 10° during the entire test. Details of the configuration combinations and parameters during the test are shown in Table II entitled Data Set Collations.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° ($\pm$10°). Sting offsets are available for obtaining various maximum angles of attack up to 90°.

DATA REDUCTION

All model forces and moments were resolved in the body axis system and are presented in the form of non-dimensional coefficients. Model reference dimensions used in the data reduction are:

	FULL SCALE	MODEL SCALE
Reference area (SREF) = Orbiter Wing Planform Area =	3220.0 ft.^{2}	7.419 in.^{2}
Reference Length (LREF)=Orbiter body length =	1328.0 in.	5.312 in.
Reference Span (BREF) = Orbiter body length =	1328.0 in.	5.312 in.

For the baseline launch configuration, moments were referenced to a point 4.82 inches forward of the base of the external tank. This point corresponds to the location of the orbiter nose. Moment reference dimensions used are (see Figure 2):

XMRP (measured from the external tank base)	4.820 in.
YMRP	0.0 in.
ZMRP	0.0 in.

Calculations to determine center of pressure location as a percent of orbiter body length were performed for both yawed and pitched attitudes of the baseline launch configuration. The equations used were:

$$\left(X_{C_p}/\ell_B\right) = \left[\frac{X_{c.g.}}{\ell_B} + \left(\frac{C_m}{C_N}\right)\left(\frac{\ell_{ref}}{\ell_B}\right)\right]$$

$$\left(Y_{C_p}/\ell_B\right) = \left[\frac{X_{c.g.}}{\ell_B} + \left(\frac{C_n}{C_y}\right)\left(\frac{b}{\ell_B}\right)\right]$$

The location of the aerodynamic center based on body length was calculated, based on the gradient data, as

$$\left(X_{AC}/\ell_B\right) = \left[\frac{X_{c.g.}}{\ell_B} + \left(\frac{C_{m_\alpha}}{C_{N_\alpha}}\right)\left(\frac{\ell_{ref}}{\ell_B}\right)\right]$$

$$\left(Y_{AC}/\ell_B\right) = \left[\frac{X_{c.g.}}{\ell_B} + \left(\frac{C_{n_\beta}}{C_{Y_\beta}}\right)\left(\frac{b}{\ell_B}\right)\right]$$

The base axial force coefficients presented herein are summations of the individual base pressures (see Figure 5) applied over their respective base areas. The equation used is:

$$C_{A_B} = C_{A_{B_O}} + C_{A_{B_S}} + C_{A_{B_E}}$$

The respective base areas were:

$A_{B_O} = 0.878$ in.^{2}

A_{B_S} (Two SRB's) $= 0.612$ in.^{2}

$A_{B_E} = 1.271$ in.^{2}

TABLE I

TEST CONDITIONS
TEST TWT 556

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	5.0 X 10^6/ft.	4.35	100
0.8	6.0 "	6.45	"
0.9	6.3 "	7.36	"
1.0	6.5 "	8.12	"
1.2	6.7 "	9.14	"
1.46	6.5 "	9.47	"
1.96	7.0 "	10.20	"
2.99	4.1 "	5.19	139
4.96	4.9 "	3.07	140

BALANCE UTILIZED: MSFC 232

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE: @ q = 10 lb/in^2
NF	300 lbs.	± 1.5 lbs.	± 0.020
SF	143 "	± 0.72 "	± 0.010
AF	50 "	± 0.25 "	± 0.003
PM	400 "	± 2.00 in-lbs	± 0.013
YM	192 "	± 0.96 in-lbs	± 0.003
RM	100 "	± 0.50 in-lbs	± 0.001

COMMENTS:

TABLE II

TEST MSFC TWT556 DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES i_o	ϕ_5	X_5	δ_R	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) δ_{e_L}	δ_{c_R}	0.6	0.8	0.9	1.0	1.2	1.46	1.96	2.99	4.96
R77001	T_3	A	O	–	–	–	–	7	–	–	140/0		141/0	142/0	143/0	184/0	148/0		1/0
002	$T_3\ S_1$	A	O	–	80	O	–	7	–	–	124/0		125/0	126/0	127/0	180/0	152/0		5/0
003	↓	O	B	–	↓	↓	–	7	–	–	131/0		130/0	129/0	128/0	181/0	151/0		4/0
004	↓	A	O	–	90	↓	–	7	–	–	139/0		138/0	137/0	136/0	183/0	149/0		2/0
005	↓	O	B	–	↓	↓	–	7	–	–	132/0		133/0	134/0	135/0	182/0	150/0		3/0
006	$O_1 T_3 S_1$	A	O	O	80	↓	O	9	O	O	103/0	102/0	101/0	100/0	99/0	175/0	153/0	7/0	6/1
007	↓	O	B	↓	↓	↓	↓	9	↓	↓	94/0	95/0	96/0	97/0	98/0	174/0	154/0	8/0	9/0
008	$O_2 T_3 S_1$	A	O	↓	↓	↓	↓	5	↓	↓	56/0	55/0	54/0	53/0	52/0				
009	↓	O	B	↓	↓	↓	↓	5	↓	↓	57/0	58/0	59/0	60/0	61/0				
010	$O_1 T_2 S_1$	A	O	↓	↓	↓	↓	6	↓	↓	↓	↓	104/0	105/0	106/0	176/0	156/0	↓	11/0
011	↓	O	B	↓	↓	↓	↓	6	↓	↓	↓	↓	109/0	108/0	107/0	173/0	155/0	↓	10/0
012	$O_2 T_2 S_1$	A	O	↓	↓	↓	↓	4	↓	↓	47/0	↓	46/0	45/0	44/0	↓	↓	↓	↓
013	↓	O	B	↓	↓	↓	↓	4	↓	↓	40/0	↓	41/0	42/0	43/0	↓	↓	↓	↓
014	$O_1 T_1 S_1$	A	O	↓	↓	↓	↓	8	↓	↓	↓	86/0	87/0	89/0	88/0	177/0	157/0	186/0	12/1
015	↓	O	B	↓	↓	↓	↓	8	↓	↓	↓	93/0	92/0	90/0	91/0	172/0	158/0	185/0	13/0
016	$O_2 T_1 S_1$	A	O	↓	↓	↓	↓	4	↓	↓	48/0	↓	49/0	50/0	51/0	↓	↓	↓	↓
017	↓	O	B	↓	↓	↓	↓	4	↓	↓	39/0	↓	38/0	37/0	36/0	↓	↓	↓	↓
018	$O_1 T_1 S_1$	A	O	-1.2	↓	↓	↓	7	↓	↓	119/0	118/0	117/0	115/0	116/0	178/0	160/0	24/0	25/0
019	↓	O	B	↓	↓	↓	↓	7	↓	↓	112/0	111/0	110/0	114/0	113/0	179/0	159/0	23/0	22/0
020	$O_2 T_1 S_1$	A	O	↓	↓	↓	↓	5	↓	↓	30/0	29/0	28/0	27/0	26/1				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CN | ICLM | KY | KYN | ICBL | CAF | CAB | 7

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

α: A = -10° to 10° (Δα = 2°)

β: B = -10° to 10° (Δβ = 2°)

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TABLE II (CONCLUDED)

TEST *MSFC TWT 556* DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES i_0	ϕ_S	X_S	δ_R	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) δ_{e_L}	δ_{e_R}		0.6	0.8	0.9	1.0	1.2	1.46	1.96	2.99	4.96
R77021	O_2 T_1 S_1	O	B	-1.2	80	0	0	5	0	0		31/0	32/0	33/0	34/0	35/0				
022	↓	A	O	+1.5				1				123/0								
023	O_1 T_1 S_1			↓				3	↓	↓				120/0	122/0	121/0				
024	↓	↓	↓	0				8	10	-10			74/0	75/0	76/0	77/0	169/0	166/0	16/0	17/0
025	↓	O	B					8					81/0	80/0	79/0	78/0	168/0	167/0	15/0	14/0
026	O_2 T_1 S_1	A	O					2				84/0	85/0							
027	↓	O	B				↓	2	↓	↓		83/0	82/0							
028	O_1 T_1 S_1	A	O				15	8	0	0			66/0	67/0	68/0	69/0	170/0	165/0	19/0	18/0
029	↓	O	B					8					73/0	72/0	71/0	70/0	171/0	163/0	20/0	21/0
030	O_2 T_1 S_1	A	O					2				64/0	65/0							
031	↓	O	B	↓	↓	↓	↓	2	↓	↓		63/0	62/0							
032	T_2	A	O	—	—	—	—	2	—	—				144/0		145/0				
033	T_1	A	O	—	—	—	—	2	—	—				147/0		146/0				
034	O_1 T_1 S_1	A	O	-1.2	80	0	0	1	10	-10								161/0		
035	↓	O	B	↓	↓	↓	↓	1	↓	↓								162/0		
036	↓	A	O	↓	↓	↓	15	1	0	0								164/0		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CN . . KLM . . KY . . CYN . . KBL . . CAF . . CAB . . 7

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

X: A = -10° to 10° (ΔX = 2°)

Y: B = -10° to 10° (ΔB = 2°)

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TABLE III
DIMENSIONAL DATA
NAR ATP BASELINE ORBITER CONFIGURATION

SYMBOL	DESCRIPTION
(BICIDIFIMI)	Body Alone
BI	Orbiter body, with housing along top centerline
CI	Canopy
DI	Manipulator fairing
FI	Body flap
MI	OMS pods
(BICIDIFIMI)(WIEI)	Body With Wing
WI	Wing
EI	Elevon
(BICIDIFIMI)(WIEI) (VIKIRI)	Body With Wing and Tail
VI	Vertical tail
KI	Air scoop at base of vertical fin
RI	Rudder

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER

CONFIGURATION

MODEL COMPONENT: BODY - B1

GENERAL DESCRIPTION: BASIC DELTA WING FUSELAGE PER NAR LINES DRAWING VL70-000001

MODEL SCALE = .004

DRAWING NUMBER: VL000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	1328.33	5.313	
Max. Width	237.96	0.952	
Max. Depth	238.00	0.952	
Fineness Ratio	5.527	5.527	
Area-FT^2			
Max. Cross-Sectional	326.0	.00522	
Planform			
Wetted			
Base			

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: BODY - CANOPY CI

GENERAL DESCRIPTION: CANOPY USED WITH BASIC DELTA WING FUSELAGE PER NAR LINES DWG VL70-000001

MODEL CALE = 0.004

DRAWING NUMBER: VL70-000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
STA FWD BULKHEAD, IN	340.00	1.3600	
STA, TRAILING EDGE, IN	560.00	2.240	
Max. Depth			
Fineness Ratio			
Area			
Max. Cross-Sectional			
Planform			
Wetted			
Base			

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: BODY - MANIPULATOR HOUSING - DI

GENERAL DESCRIPTION: _____

SCALE MODEL = 0.004

DRAWING NUMBER: VL70-000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length, IN	967.0	3.8680	
Max. Width, IN	53.32	0.2132	
Max. Depth, IN	20.00	0.080	
Fineness Ratio			
Area			
Max. Cross-Sectional			
Planform			
Wetted			
Base			

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: BODY - FLAP F1

GENERAL DESCRIPTION: FLAP LOCATED ON LOWER AFT PORTION OF BODY AND EXTENDING AFT OF BODY TRAILING EDGE

SCALE MODEL = 0.004

DRAWING NUMBER:

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	83.33	0.333	
Fus. Sta. LE IN.	1528.33	6.113	
Fus. Sta. T.E. In.	1611.67	6.447	
Width (span) In.	229.33	0.917	
Area Ft.^{2}			
Max. Cross-Sectional	-	-	
Planform	132.72	0.0021	
Wetted			
Base			

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: BODY - ORBITAL MANEUVERING SYSTEM POD-MI

GENERAL DESCRIPTION: _____

MODEL SCALE = 0.004

DRAWING NUMBER: VL - 000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length ~IN	290.67	1.1626	
Max. Width ~IN	67.33	0.2693	
Max. Depth ~IN	104.00	0.416	
Fineness Ratio	-	-	
Area			
Max. Cross-Sectional	-	-	
Planform	-	-	
Wetted	-	-	
Base	-	-	

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: BODY - A1 ASRM

GENERAL DESCRIPTION: ABORT ROCKETS

SCALE MODEL = 0.004

DRAWING NUMBER: VL70-000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length In.	360.0	1.440	
Max. Width			
Max. DIA	65.7	0.263	
Fineness Ratio L/D	5.4795	5.4795	
Area			
Max. Cross-Sectional	23.5478	.0004	
Planform			
Wetted			
Base			

WP = 352.0 In. FS: 1.408 In. MS

BP = 168.0 In. FS: 0.672 In. MS

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER

CONFIGURATION

MODEL COMPONENT: WING - WI

GENERAL DESCRIPTION: DELTA WING WITH -5° TWIST AND ROUNDED WING TIPS. WING BLENDS INTO BODY. FOLLOWS NAR LINES. V70-00000[1]. EQUIV. SPAN IS 78.604 % OF THEORETICAL DELTA WING. MODEL SCALE = 0.004

DRAWING NUMBER: VL70-00000[1]

DIMENSIONS:	THEORETICAL		ACTUAL MEASURED
TOTAL DATA	FULL-SCALE	MODEL SCALE	MODEL SCALE
Area			
Planform	3221.92	.05155	
Wetted	-	-	
Span (equivalent)	1007.8	4.0312	
Aspect Ratio	2.144	2.144	
Rate of Taper	1.191	1.191	
Taper Ratio	0.219	0.219	
Diehedral Angle, degrees	3.500	3.500	
Incidence Angle, degrees	3.000	3.000	
Aerodynamic Twist, degrees	-5.000	-5.000	
Toe-In Angle	3.000	3.000	
Cant Angle	-2.000	-2.000	
Sweep Back Angles, degrees			
Leading Edge	49.910	49.910	
Trailing Edge	-0.183	-0.183	
0.25 Element Line	41.675	41.675	
Chords:			
Root (Wing Sta. 0.0)	760.56	3.0422	
Tip, (equivalent)	159.72	0.6388	
MAC	525.4	2.0976	
Fus. Sta. of .25 MAC	1132.98	4.5319	
W.P. of .25 MAC	304.55	1.2182	
B.L. of .25 MAC	196.09	.7843	
Airfoil Section			
Root			
Tip			
EXPOSED DATA			
Area	2203.00	0.03524	
Span, (equivalent)	795.86	3.1834	
Aspect Ratio	1.966	1.966	
Taper Ratio	0.260	0.260	
Chords			
Root	641.57	2.5662	
Tip	166.68	.6667	
MAC	450.63	1.8025	
Fus. Sta. of .25 MAC	1190.82	4.7633	
W.P. of .25 MAC	305.47	1.2219	
B.L. of .25 MAC	260.80	1.0432	
Leading Edge Cuff			
Planform Area (in W.R.P) Ft.^{2}		271.39	0043
Leading edge intersects fuselage ML - @ sta. in.		540.00	2.1600

MSFC - Form 263-8 (February 1972)

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: ELEVON - EI (DATA FOR 1 of 2 SIDES)

GENERAL DESCRIPTION: FULL SPAN, CONSTANT CHORD ELEVON LOCATED ON WING WI.

MODEL SCALE = 0.004

DRAWING NUMBER: VL70.000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Area (TRUE), FT^2	347.2	.00555	
Span (equivalent)	384.0	1.536	
Inb'd equivalent chord	134.38	.537	
Outb'd equivalent chord	134.38	.537	
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord	0.209	0.209	
At Outb'd equiv. chord	0.805	0.805	
Sweep Back Angles, degrees			
Leading Edge	-0.183	-0.183	
Tailing Edge	-0.183	-0.183	
Hingeline	-0.183	-0.183	
Area Moment (Normal to hinge line) (PRODUCT OF AREA & MEAN CHORD)	4164.40	0.00026	

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER

CONFIGURATION

MODEL COMPONENT: VERTICAL TAIL - VI

GENERAL DESCRIPTION: CENTERLINE VERTICAL ON DELTA WING CONFIGURATION WITH DOUBLE WEDGE AIRFOIL AND ROUNDED LEADING EDGE. TOTAL DATA INCLUDES VOID AREA LISTED BELOW. SCALE MODEL = 0.004

DRAWING NUMBER: VL70-00000[1]

DIMENSIONS:	THEORETICAL		ACTUAL MEASURED
TOTAL DATA	FULL-SCALE	MODEL SCALE	MODEL SCALE
Area	415.25	.00664	
Planform	1.29	.00002	
Wetted	19.93	.00032	
Span (equivalent)	32.39	1.2956	
Aspect Ratio	1.675	1.675	
Rate of Taper	0.504	0.504	
Taper Ratio	0.424	0.424	
Diehedral Angle, degrees	-	-	
Incidence Angle, degrees	-	-	
Aerodynamic Twist, degrees	-	-	
Toe-In Angle	0.0	0.0	
Cant Angle	0.0	0.0	
Sweep Back Angles, degrees			
Leading Edge	45.000	45.000	
Trailing Edge	26.361	26.361	
0.25 Element Line	41.150	41.150	
Chords:			
Root (Wing Sta. 0.0)	275.52	1.1021	
Tip, (equivalent)	111.4	0.448	
MAC	205.0	0.820	
Fus. Sta. of .25 MAC	1462.2	5.849	
W.P. of .25 MAC	639.0	2.556	
B.L. of .25 MAC	0.0	0.0	
Airfoil Section 5° HALF ANGLE			
Root DOUBLE WEDGE WITH			
Tip ROUNDED L.E. =			
EXPOSED DATA			
Area			
Span, (equivalent)			
Aspect Ratio			
Taper Ratio			
Chords			
Root			
Tip			
MAC			
Fus. Sta. of .25 MAC			
W.P. of .25 MAC			
B.L. of .25 MAC			

*Void area located at the lower, aft portion of the surface

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: BODY - COOLANT INLET K1

GENERAL DESCRIPTION: COOLANT INLET PER LINES VL70-000012 AIR COOLANT DUCT MOLDED INTO 60% ELEMENT LINE OF VERTICAL TAIL.

SCALE MODEL .004

DRAWING NUMBER: VL70-000012

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	143.00	0.572	
Max. Width			
Max. (DIA)	38.00		
Fineness Ratio			
Area			
Max. Cross-Sectional			
Planform			
Wetted			
Base			

FS 1307.0 IN. FS

BP = 0.00 IN. FS

WP = 539.00 IN. FS

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE ORBITER
CONFIGURATION

MODEL COMPONENT: RUDDER - R1

GENERAL DESCRIPTION: RUDDER ON CENTERLINE VERTICAL TAIL, V1

MODEL SCALE = 0.004

DRAWING NUMBER: V170-000001

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Area ~FT^2	117.7	.00188	
Span (equivalent) ~in	226.0	0.9040	
Inb'd equivalent chord ~in	97.09	.3884	
Outb'd equivalent chord ~in	52.02	.2081	
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord	0.400	0.400	
At Outb'd equiv. chord	0.400	0.400	
Sweep Back Angles, degrees			
Leading Edge	34.889	34.889	
Tailing Edge	26.361	26.361	
Hingeline	34.889	34.889	
Area Moment (Normal to hinge line) (PRODUCT OF AREA AND MEAN CHORD)	647.77	.00004	

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE INTERGRATED LAUNCH
CONFIGURATION

MODEL COMPONENT: BODY - T_1

GENERAL DESCRIPTION: EXTERNAL TANK (BASELINE DIA.) WITH 30° HALF ANGLE NOSE CONE AND RETRO ROCKET.

DRAWING NUMBER: MSFC 80M 32565 (NOSE) & 80M 42575 (body)

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	2184 in.	8.736 in.	—
Max. Width	318 in.	1.272 in.	—
Max. Depth	318 in.	1.272 in.	—
Fineness Ratio	6.87	6.87 in.	
Area			
Max. Cross-Sectional	551.54 ft.^{2}	1.271 in.^{2}	—
Planform	—	—	—
Wetted	—	—	—
Base	551.54 ft.^{2}	1.271 in.^{2}	—

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE INTERGRATED LAUNCH
CONFIGURATION

MODEL COMPONENT: BODY - T_2

GENERAL DESCRIPTION: EXTERNAL TANK (BASELINE DIA. WITH 22° HALF ANGLE NOSE CONE AND RETRO ROCKET)

DRAWING NUMBER: MSFC 80M 32564 (NOSE) & 80M 42575 (body)

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	2281.5 in.	9.126 in.	—
Max. Width	318 in.	1.272 in.	—
Max. Depth	318 in.	1.272 in.	—
Fineness Ratio	7.17	7.17	—
Area			
Max. Cross-Sectional	551.54 ft.^{2}	1.271 in.^{2}	—
Planform	—	—	—
Wetted	—	—	—
Base	551.54 ft.^{2}	1.271 in.^{2}	—

TABLE III DIMENSIONAL DATA (CONTINUED)
NAR ATP BASELINE INTERGRATED LAUNCH
CONFIGURATION

MODEL COMPONENT: BODY - T_3

GENERAL DESCRIPTION: EXTERNAL TANK (BASELINE DIA.) WITH OGIVE NOSE CONE AND RETRO ROCKET

DRAWING NUMBER: MSFC 80M 32569 (NOSE) & 80M 42575 (body)

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	2467.8 in.	9.871 in.	—
Max. Width	318 in.	1.272 in.	—
Max. Depth	318 in.	1.272 in.	—
Fineness Ratio	7.76	7.76	—
Area			
Max. Cross-Sectional	551.54 ft.^{2}	1.271 in.^{2}	—
Planform	—	—	—
Wetted	—	—	—
Base	551.54 ft.^{2}	1.271 in.^{2}	—

TABLE III DIMENSIONAL DATA (CONCLUDED)
NAR ATP BASELINE INTERGRATED LAUNCH
CONFIGURATION

MODEL COMPONENT: BODY - S_1

GENERAL DESCRIPTION: SOLID ROCKET MOTOR (BASELINE DIA) WITH HOLD DOWN ARMS

DRAWING NUMBER: MSFC 80M32563-68 & 42574

DIMENSIONS:	THEORETICAL FULL-SCALE	THEORETICAL MODEL SCALE	ACTUAL MEASURED MODEL SCALE
Length	2217 in.	8.868 in.	—
Max. Width	156 in.	0.624 in.	—
Max. Depth	156 in.	0.624 in.	—
Fineness Ratio	14.21	14.21	—
Area			
Max. Cross-Sectional	132.5 ft^2	0.306 $in.^2$	—
Planform	—	—	—
Wetted	—	—	—
Base	132.5 $ft.^2$	0.306 $in.^2$	—

TABLE IV

INDEX OF MODEL FIGURES

FIGURE	DESCRIPTION	PAGE
1.	Axis Systems	36
2.	General Arrangement of Launch Model	37
3.	External Tank Configurations	38
4.	SRB General Arrangement	39
5.	Base Pressure Measuring Tube Locations	40

TABLE V.

INDEX OF DATA FIGURES

TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENT SCHEDULE	PAGES
Stability Characteristics on Body Build-Up	Configuration Mach	(A)	1-54
		(B)	55-61
Effects of Nose Shape on Launch Vehicle (ASRM-OFF)	Configuration Mach	(A)	62-88
		(B)	89-92
Effects of Nose Shape on Launch Vehicle (ASRM-ON)	Configuration Mach	(A)	93-107
		(B)	108-111
Effects of Nose Shape on External Tank	Configuration Mach	(A)	112-132
		(B)	133-136
Stability Characteristics on Body Build-Up	Configuration Mach	(C)	137-172
		(D)	173-174
Effects of Nose Shape on Launch Vehicle (ASRM-OFF)	Configuration Mach	(C)	175-192
		(D)	193-194
Effects of Nose Shape on Launch Vehicle (ASRM-ON)	Configuration Mach	(C)	195-204
		(D)	205-206

TABLE V. (CONTINUED)

TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENT SCHEDULE	PAGES
Effect of Incidence Angle on Stability	Configuration ORBINC Mach	(A)	207-260
		(B)	261-267
		(C)	268-303
		(D)	304-305
Effect of SRB Location Relative to External Tank	PHI Mach	(A)	306-326
		(B)	327-330
		(C)	331-344
		(D)	345-346
Effect of Aileron	ORBINC AILRON Mach	(E)	347-391
		(F)	392-393
		(E)	394-408
		(F)	409-410
		(G)	411-437
		(H)	438-440
		(G)	441-455
		(H)	456-458

TABLE V. (CONTINUED)

TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENT SCHEDULE	PAGES
Effect of Rudder	RUDDER ORBINC Mach	(E)	459-503
		(I)	504-505
		(G)	506-513
		(J)	514-521
Effect of Aileron	AILRON ORBINC Mach Configuration	(K)	522-553
Effect of Rudder	RUDDER ORBINC Mach	(K)	554-580

TABLE V. (CONCLUDED)

PLOTTED COEFFICIENTS SCHEDULE:

(A) CN, CLM, CAF, CAB versus ALPHA
CN versus CLM
XCP/L versus ALPHA

(B) D(CN), D(CLM), CNAFO, CLMAFO, CAFAFO,
CABAFO, XAC/L versus MACH NUMBER

(C) CY, CYN, CBL, YCP/L versus BETA

(D) D(CY), D(CYN), D(CBL), YAC/L versus MACH

(E) CN, CLM, CAF, XCP/L versus ALPHA
CN versus CLM

(F) DCN/DA, DCLMDA versus ALPHA

(G) CY, CYN, CBL versus BETA

(H) DCY/DA, DCYNDA, DCBLDA versus BETA

(I) DCN/DR, DCLMDR versus ALPHA

(J) DCY/DR, DCYNDR, DCBLDR versus BETA

(K) CY, CYN, CBL versus ALPHA

Notes:

1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

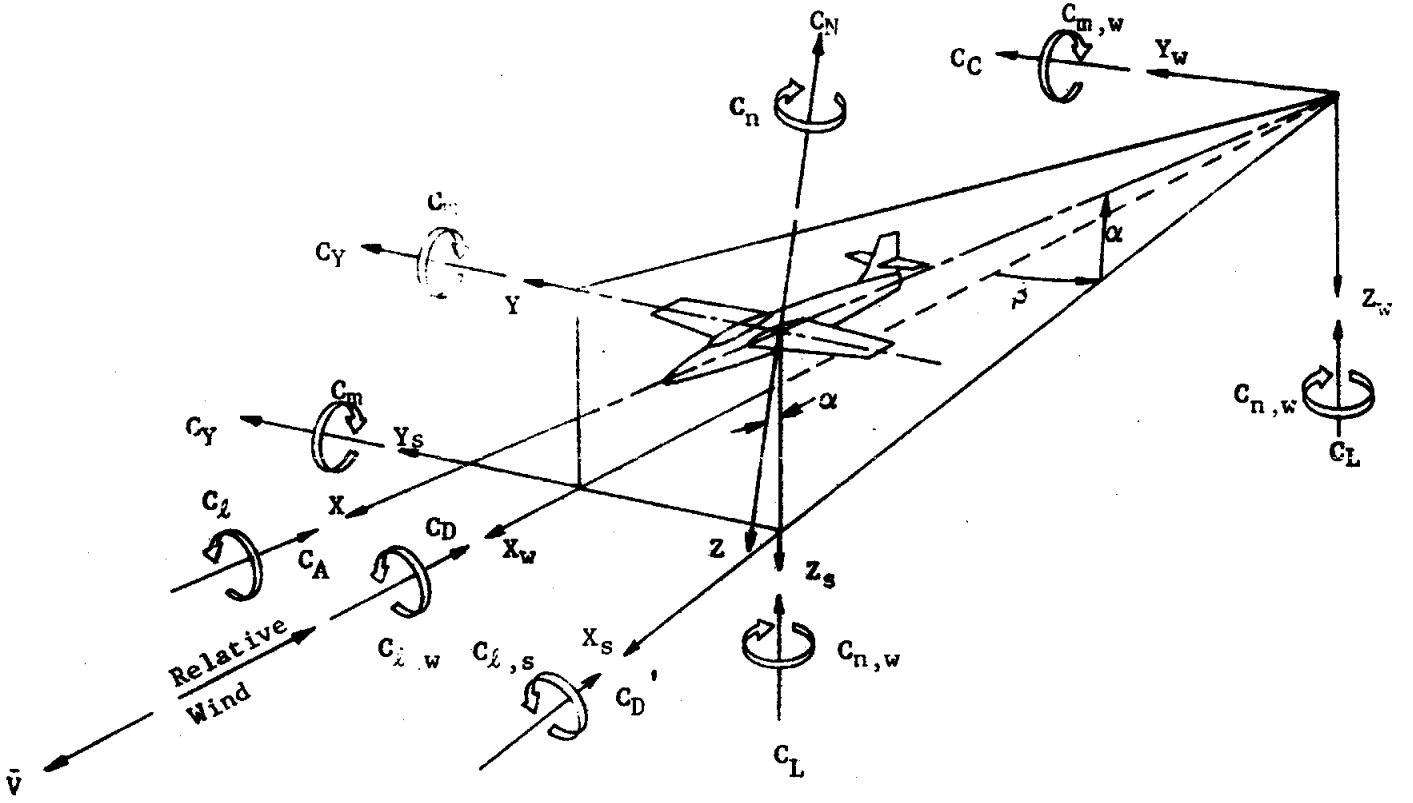


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

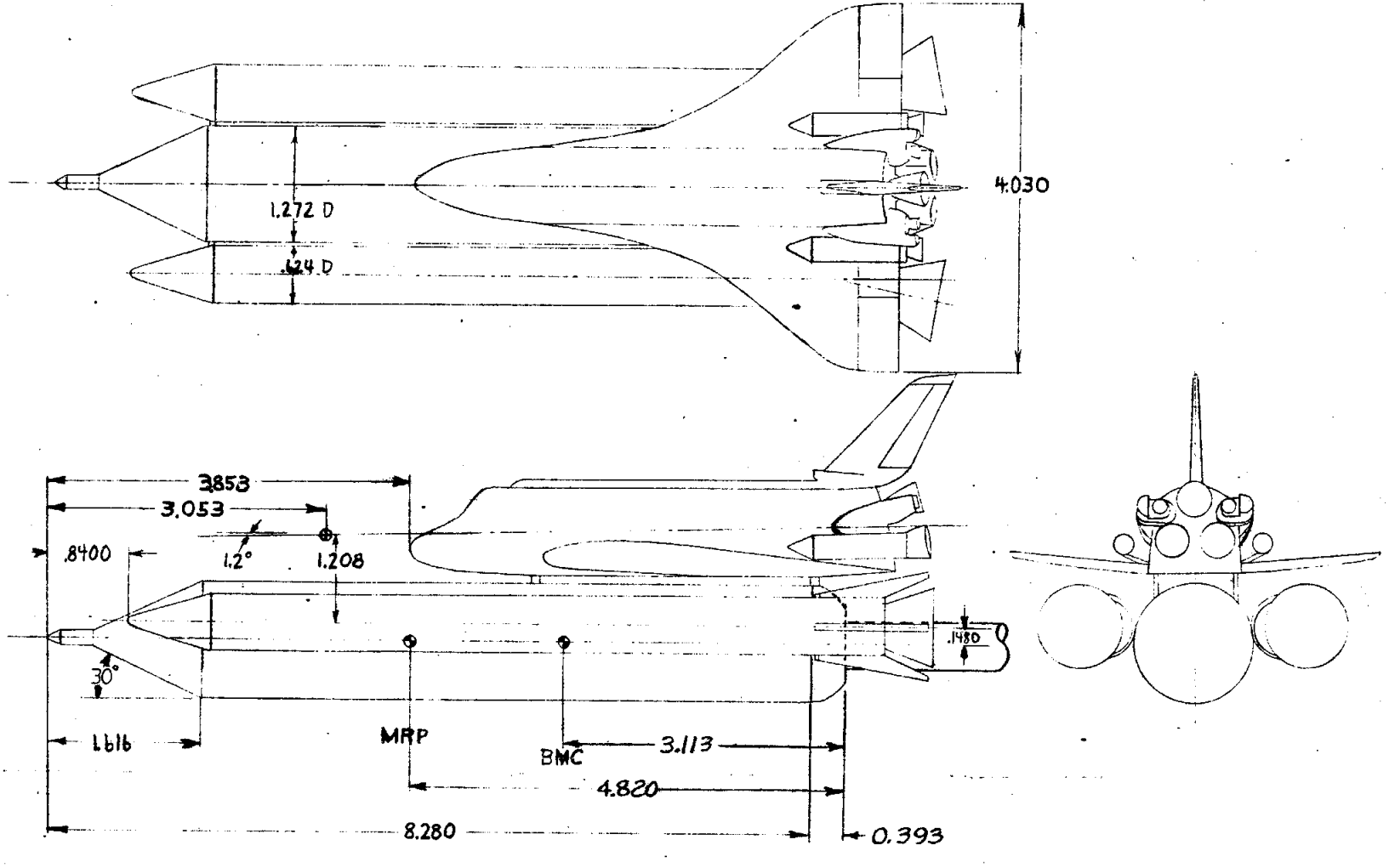
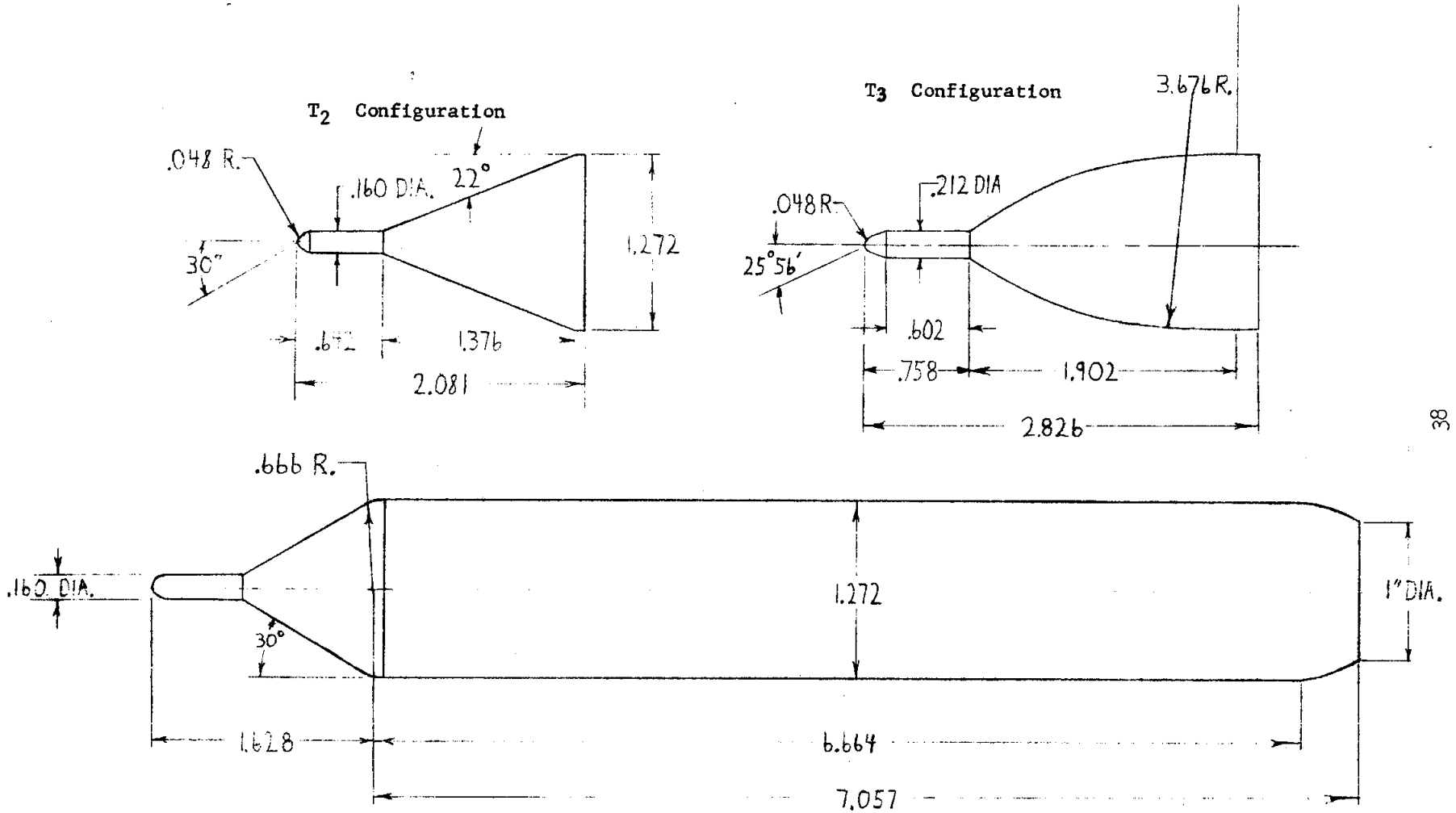


FIGURE 2 - GENERAL ARRANGEMENT OF LAUNCH MODEL



T_1 Configuration

FIGURE 3. EXTERNAL TANK CONFIGURATIONS

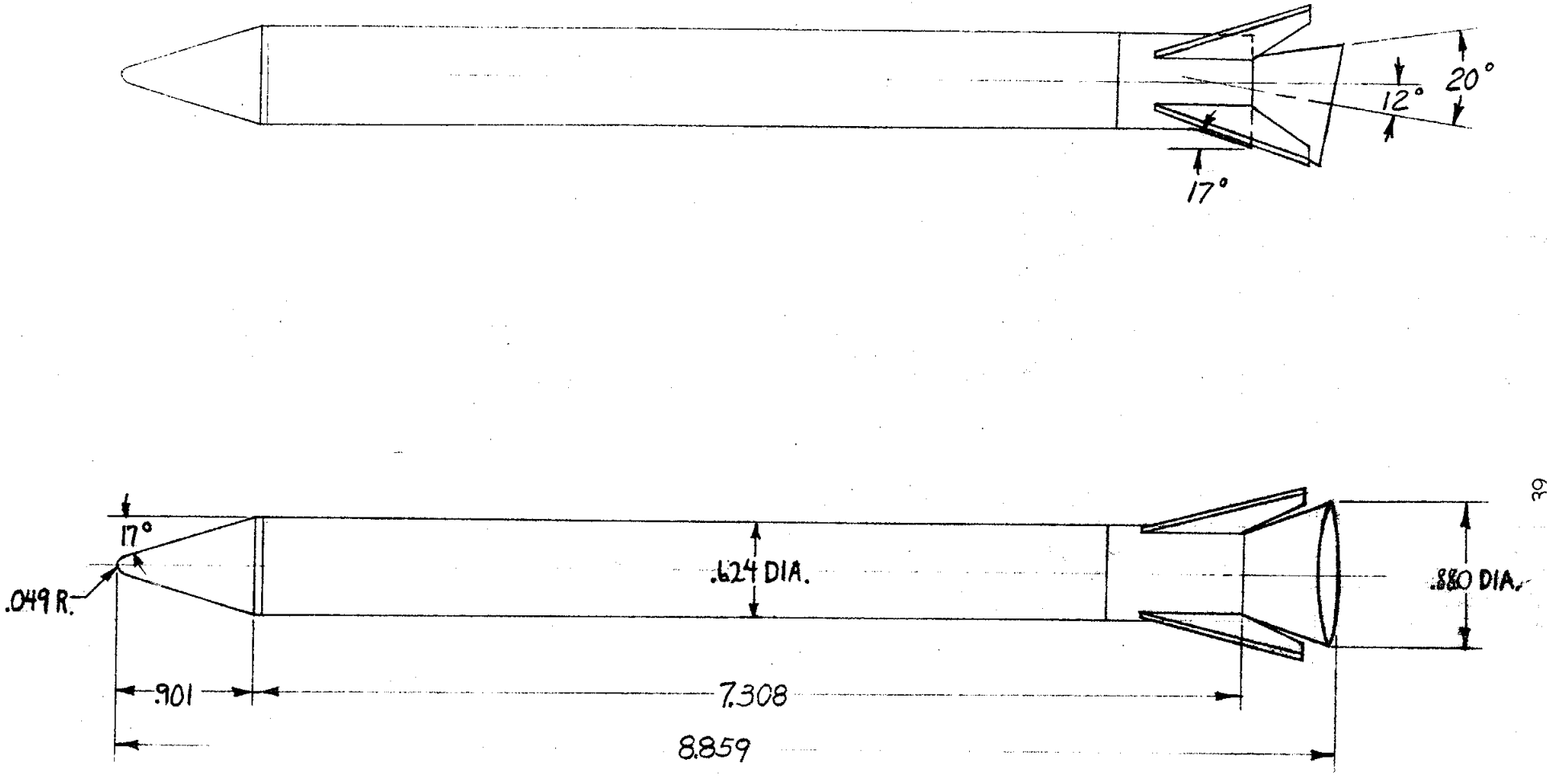


FIGURE 4. SRB GENERAL ARRANGEMENT

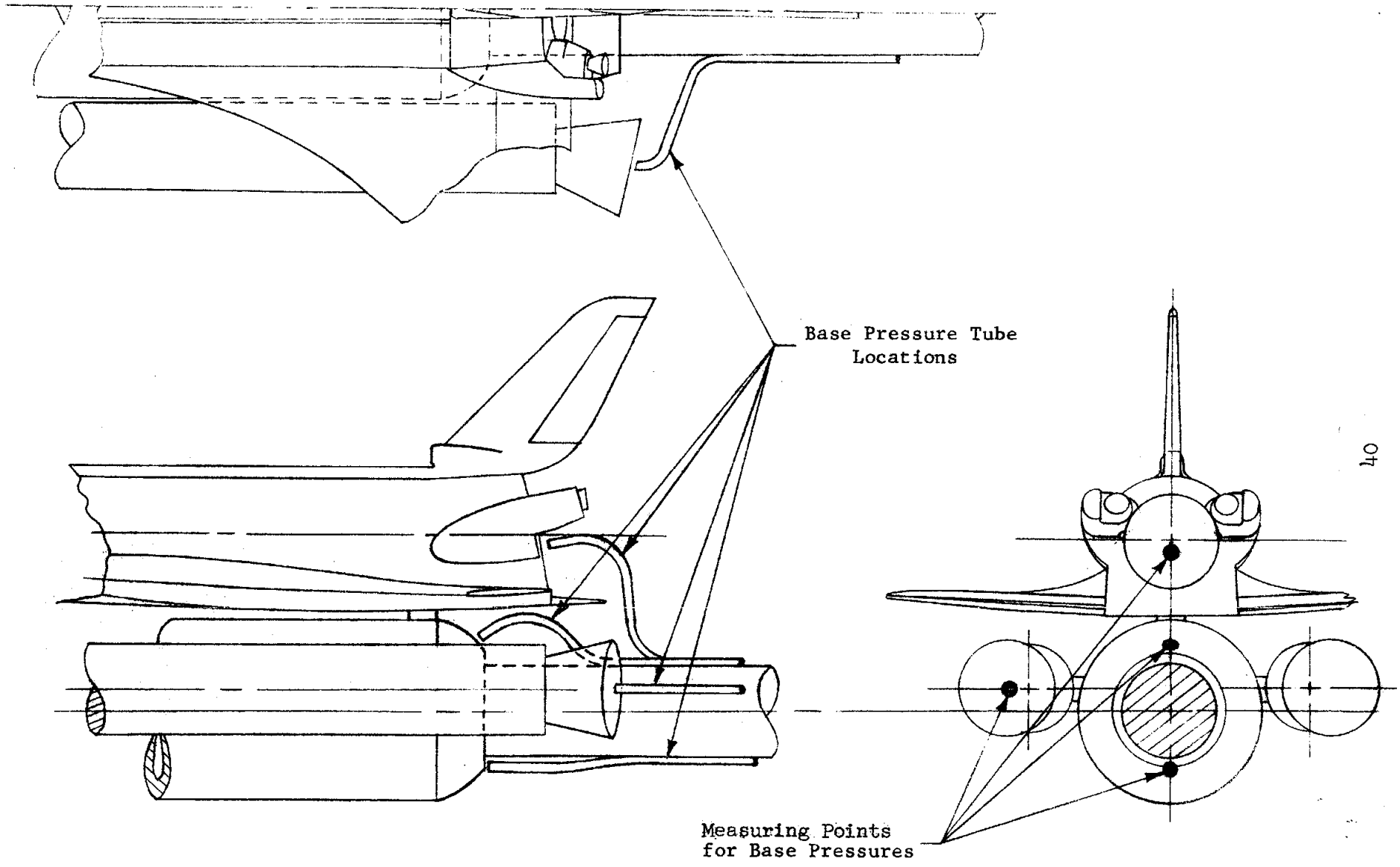
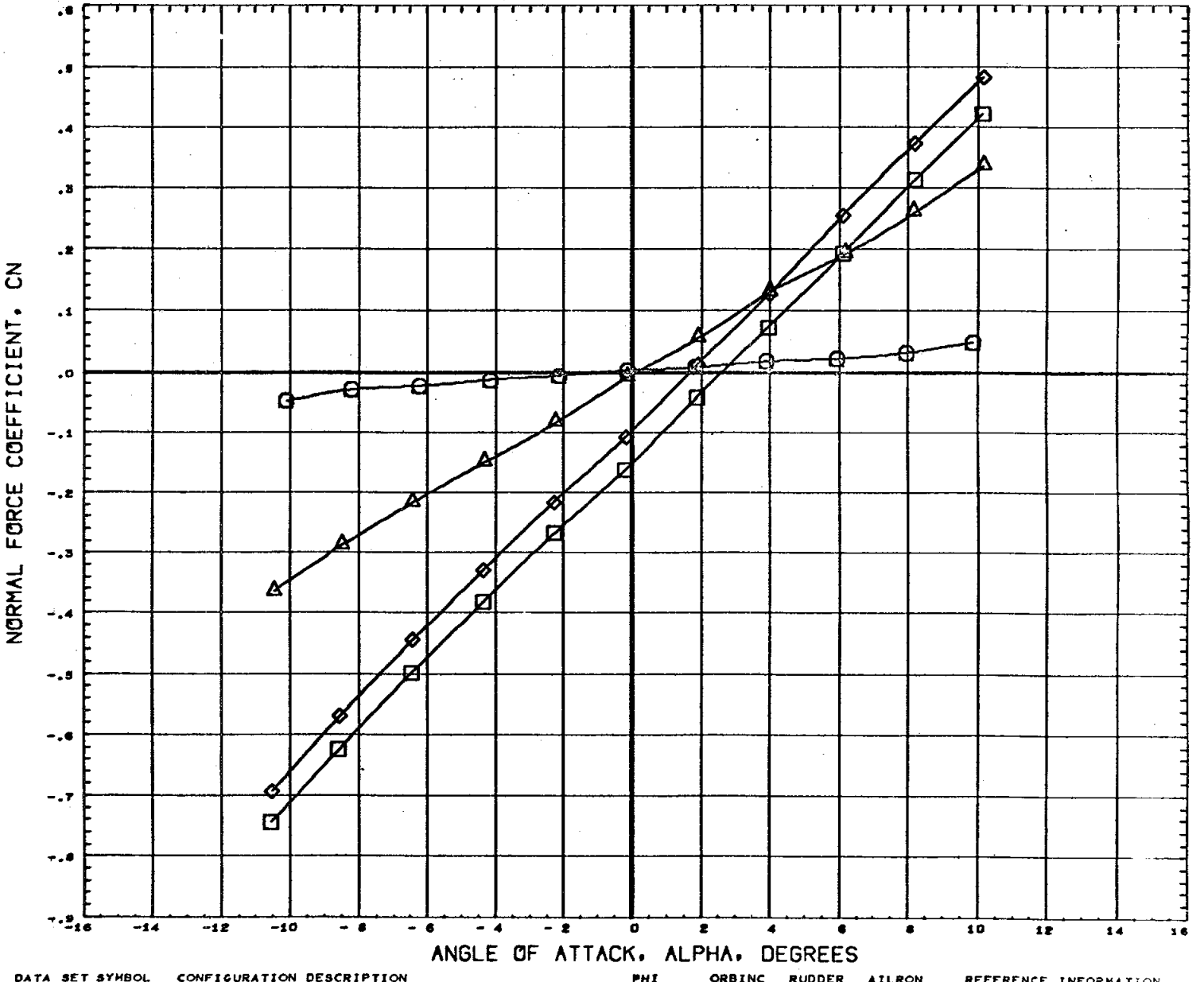


FIGURE 5. BASE PRESSURE MEASURING TUBE LOCATIONS

D A T A F I G U R E S

STABILITY CHARACTERISTICS ON BODY BUILD-UP

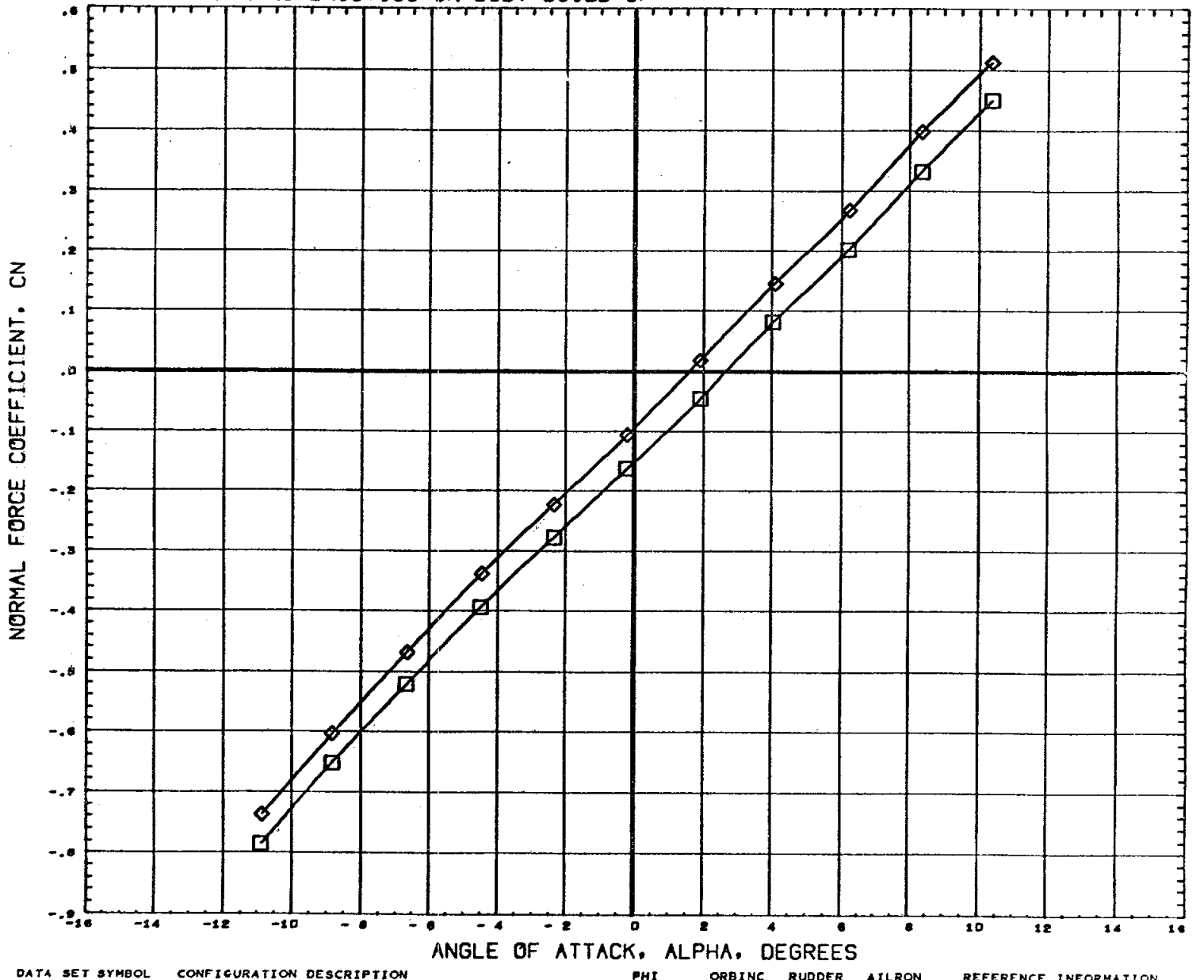


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

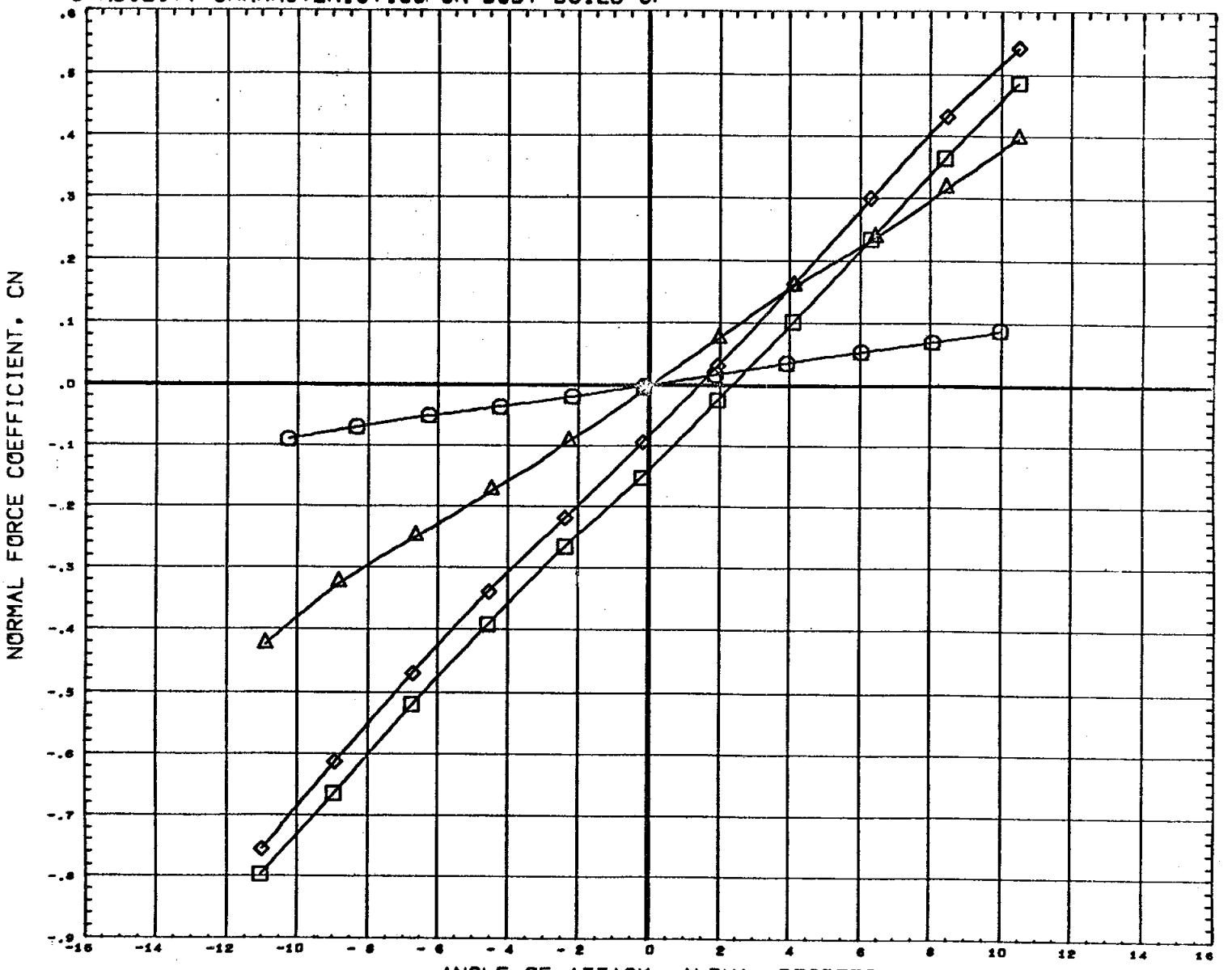


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(G77002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP



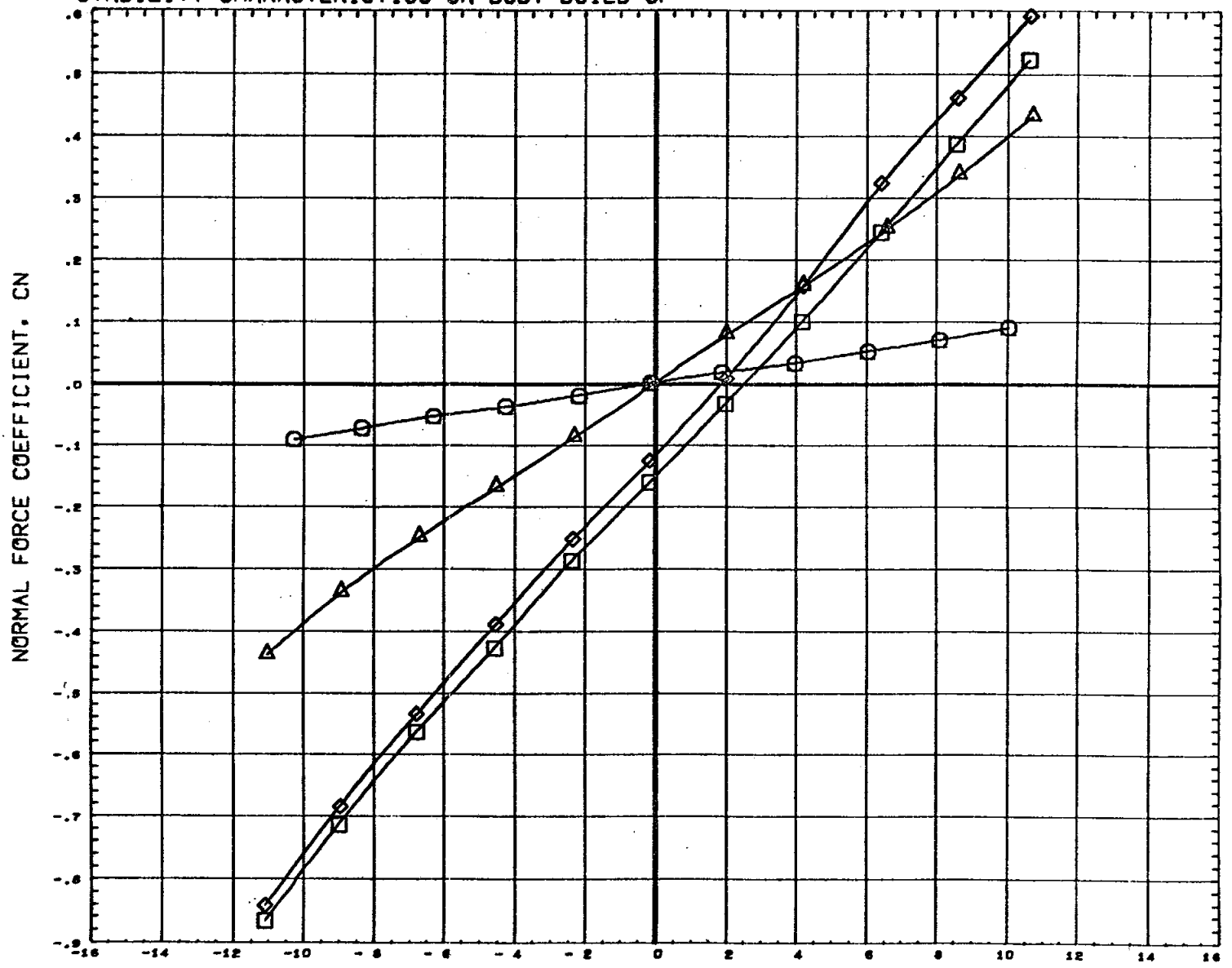
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP

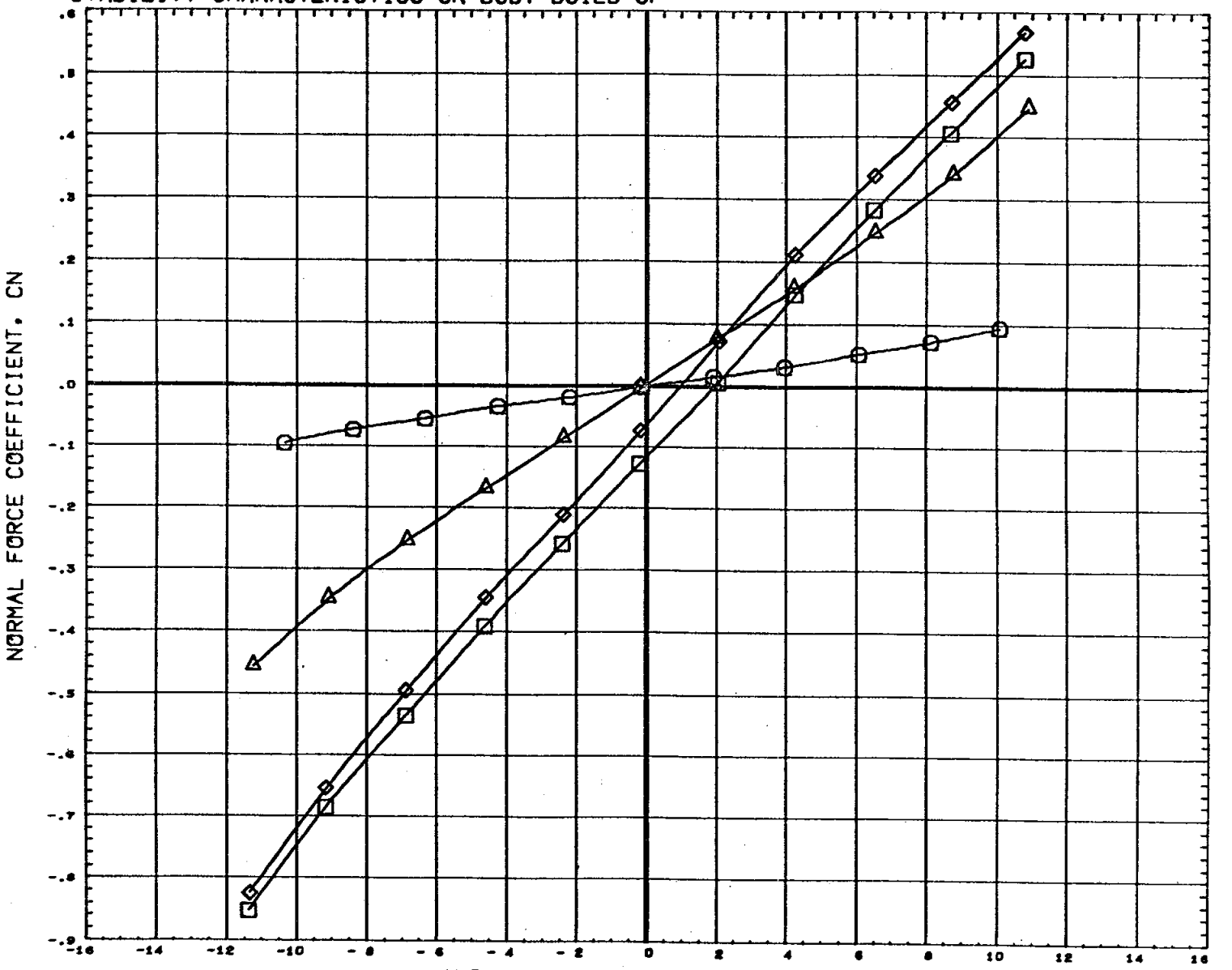


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

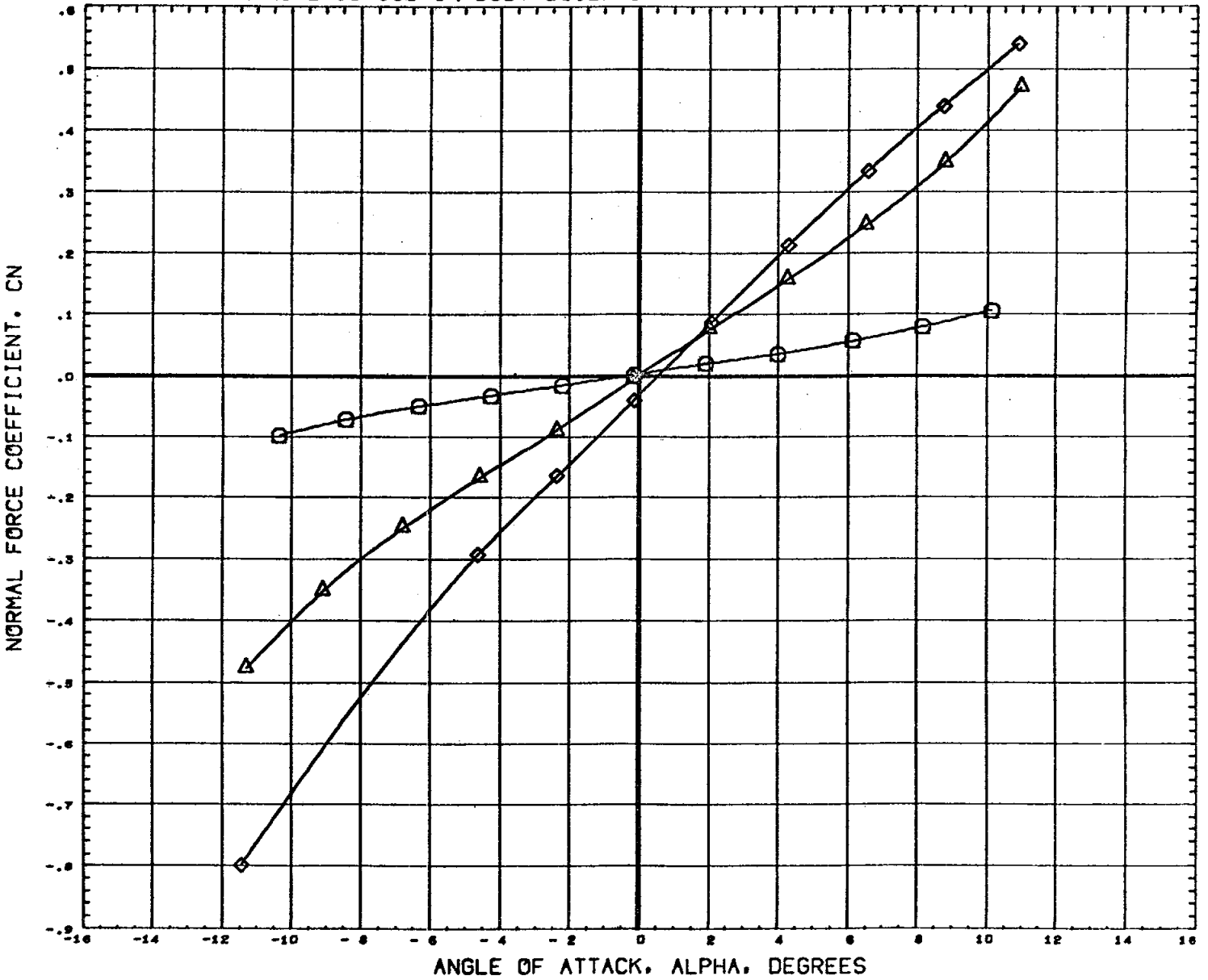


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

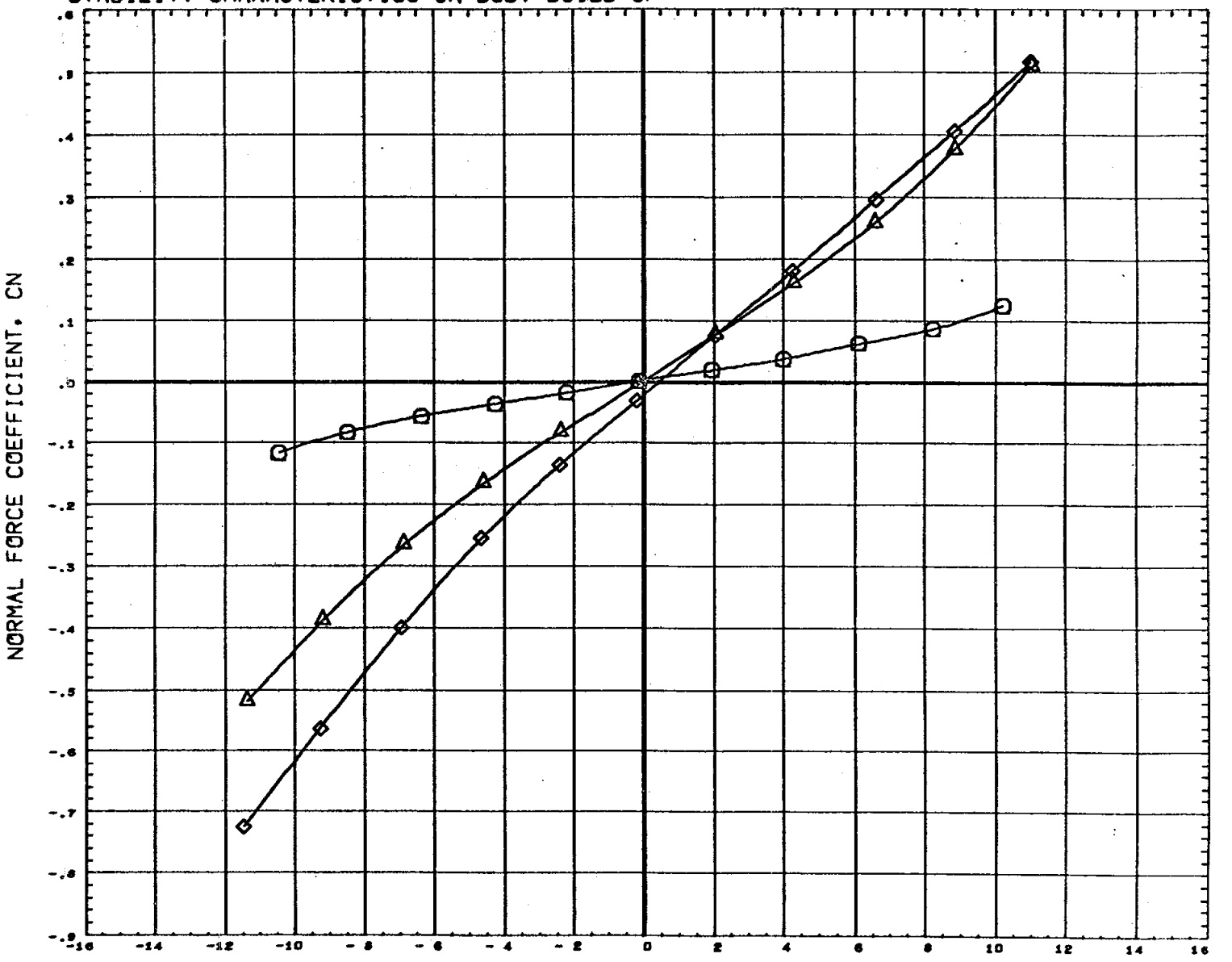


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP

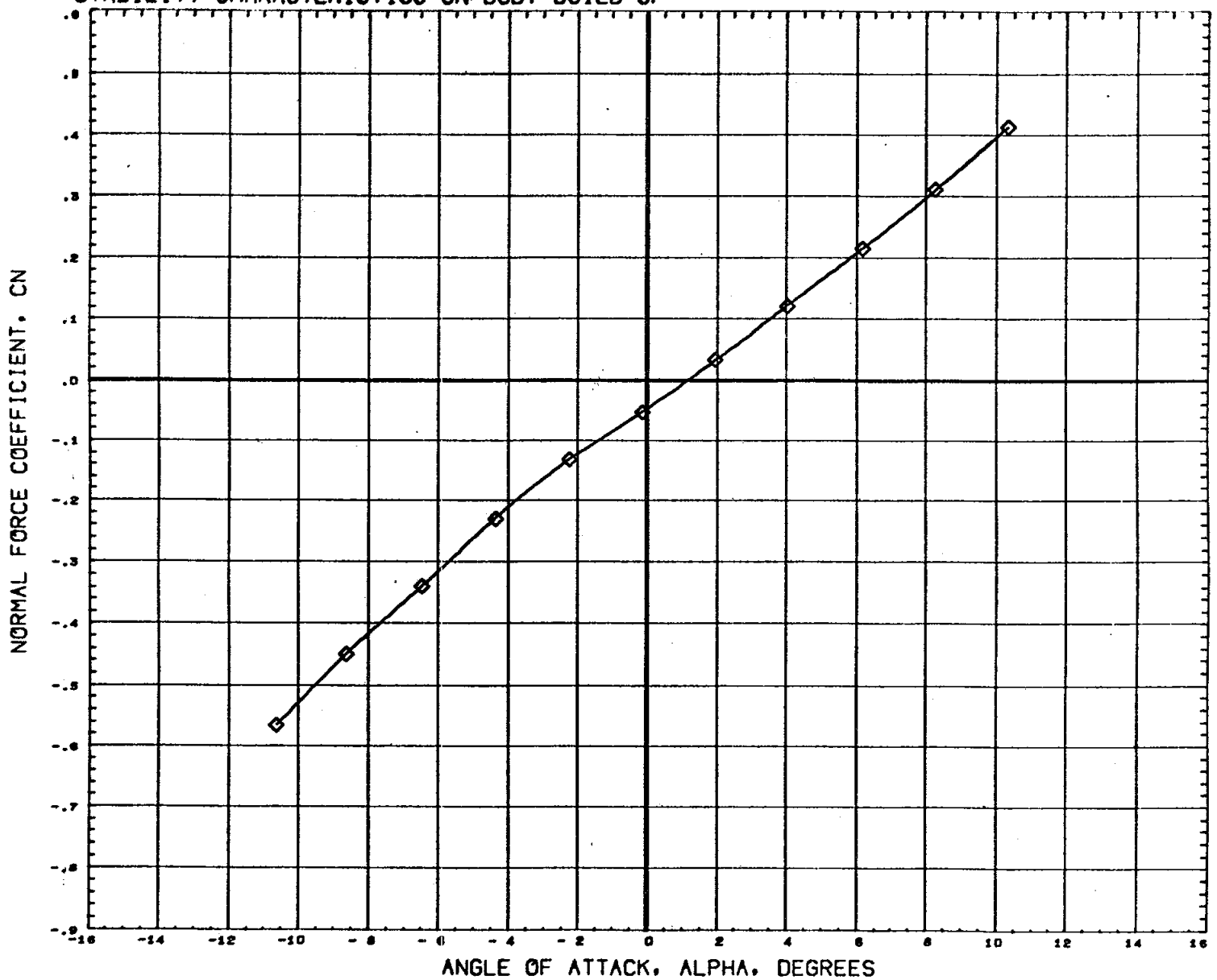


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

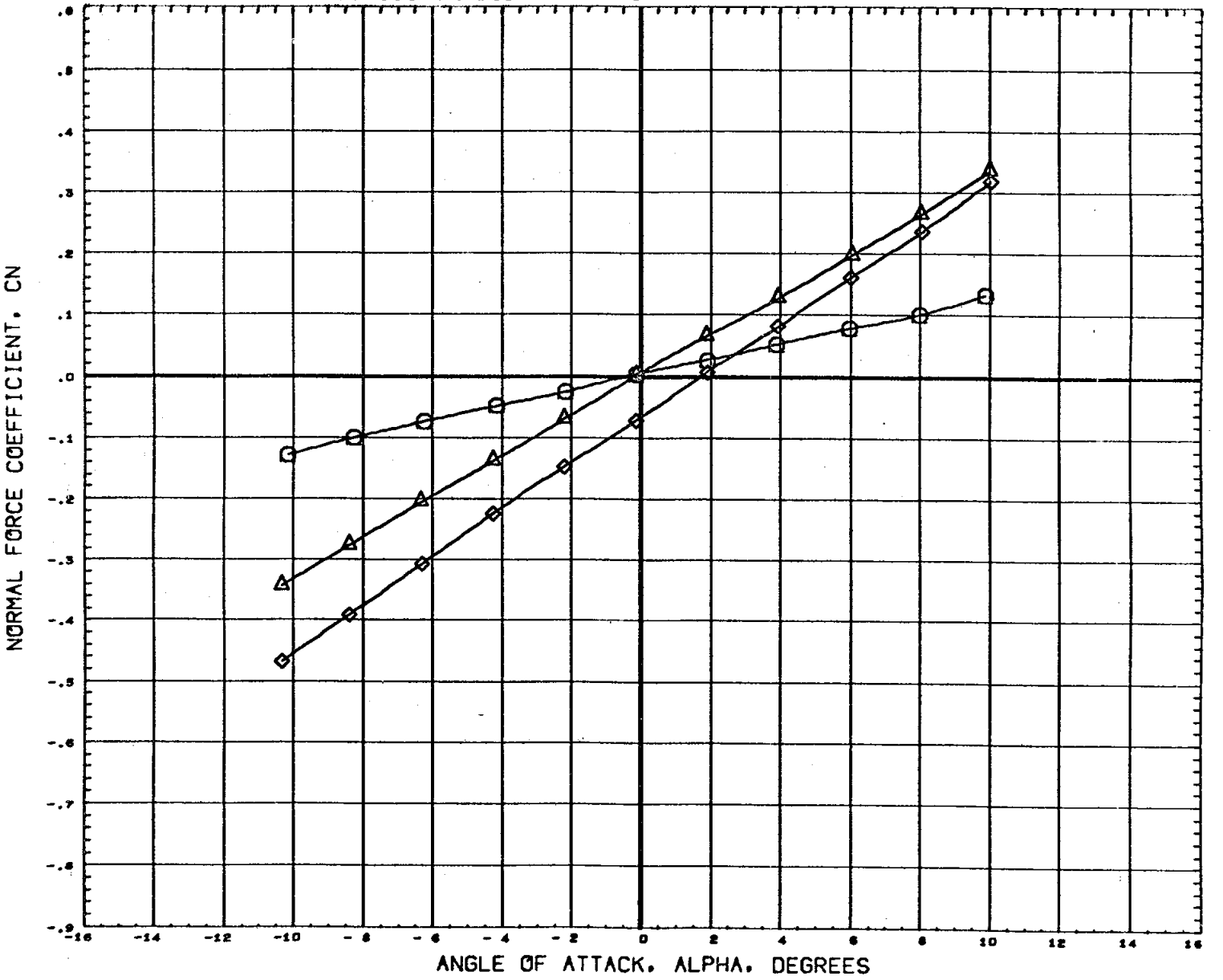


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP

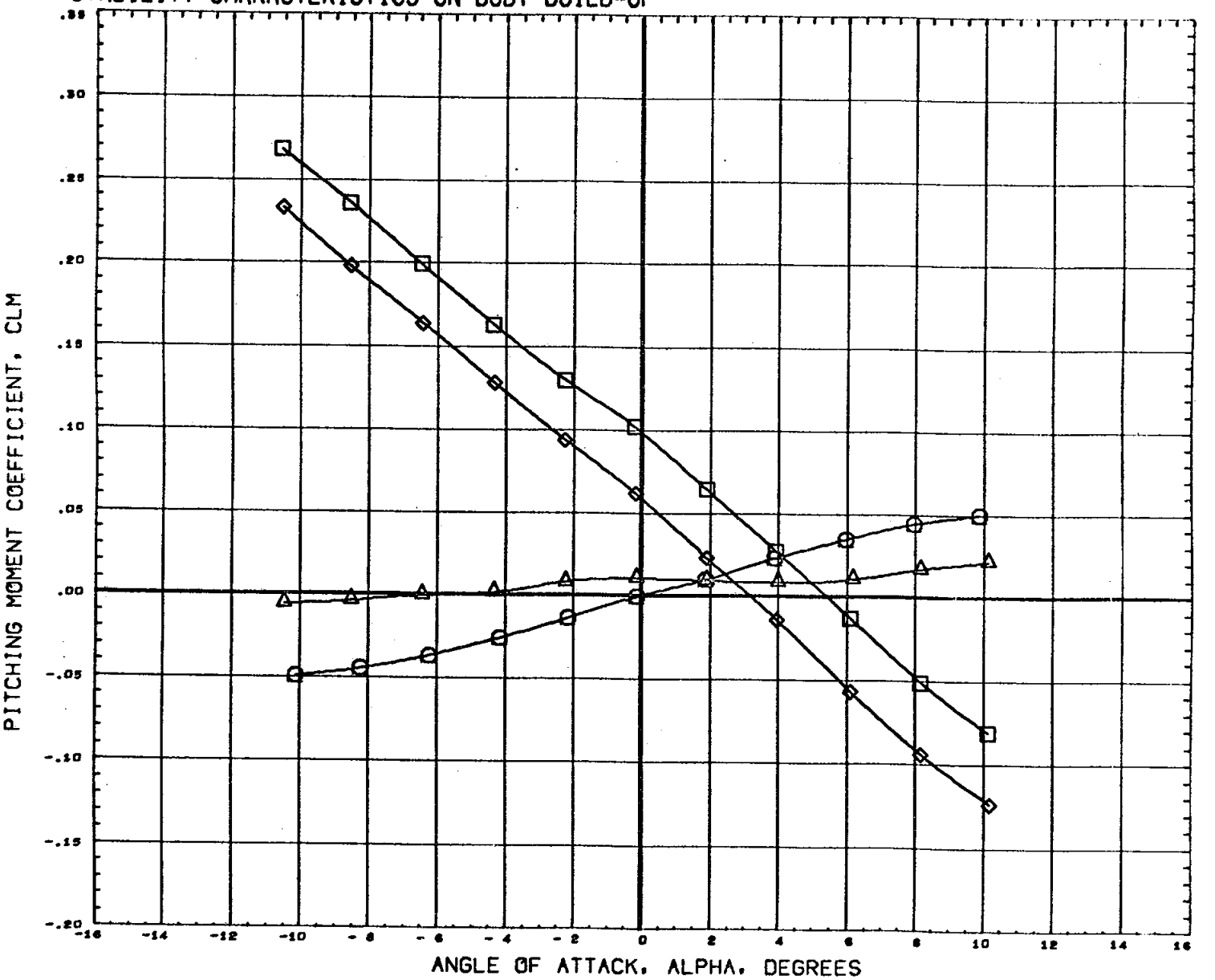


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○1	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(G77008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

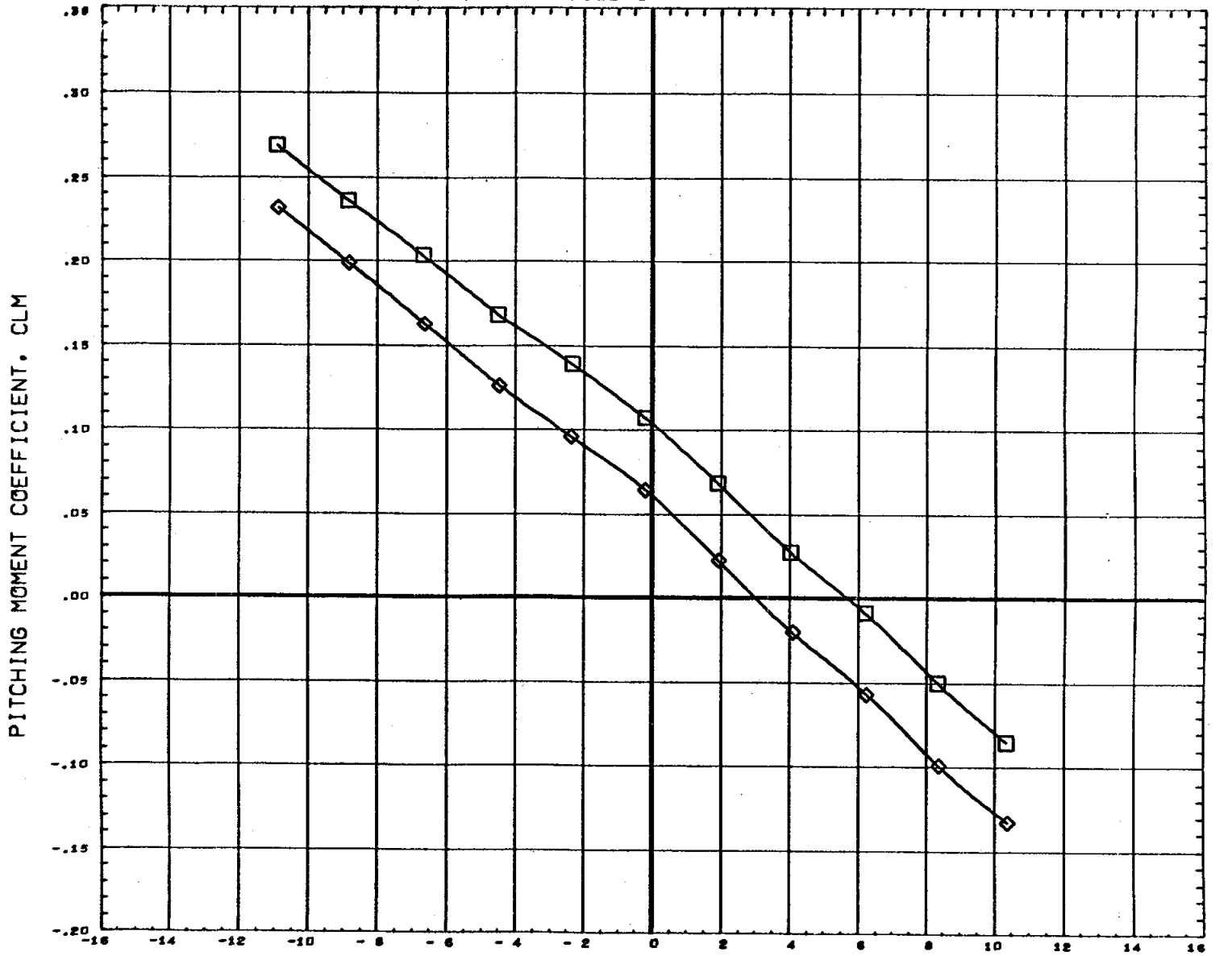
PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

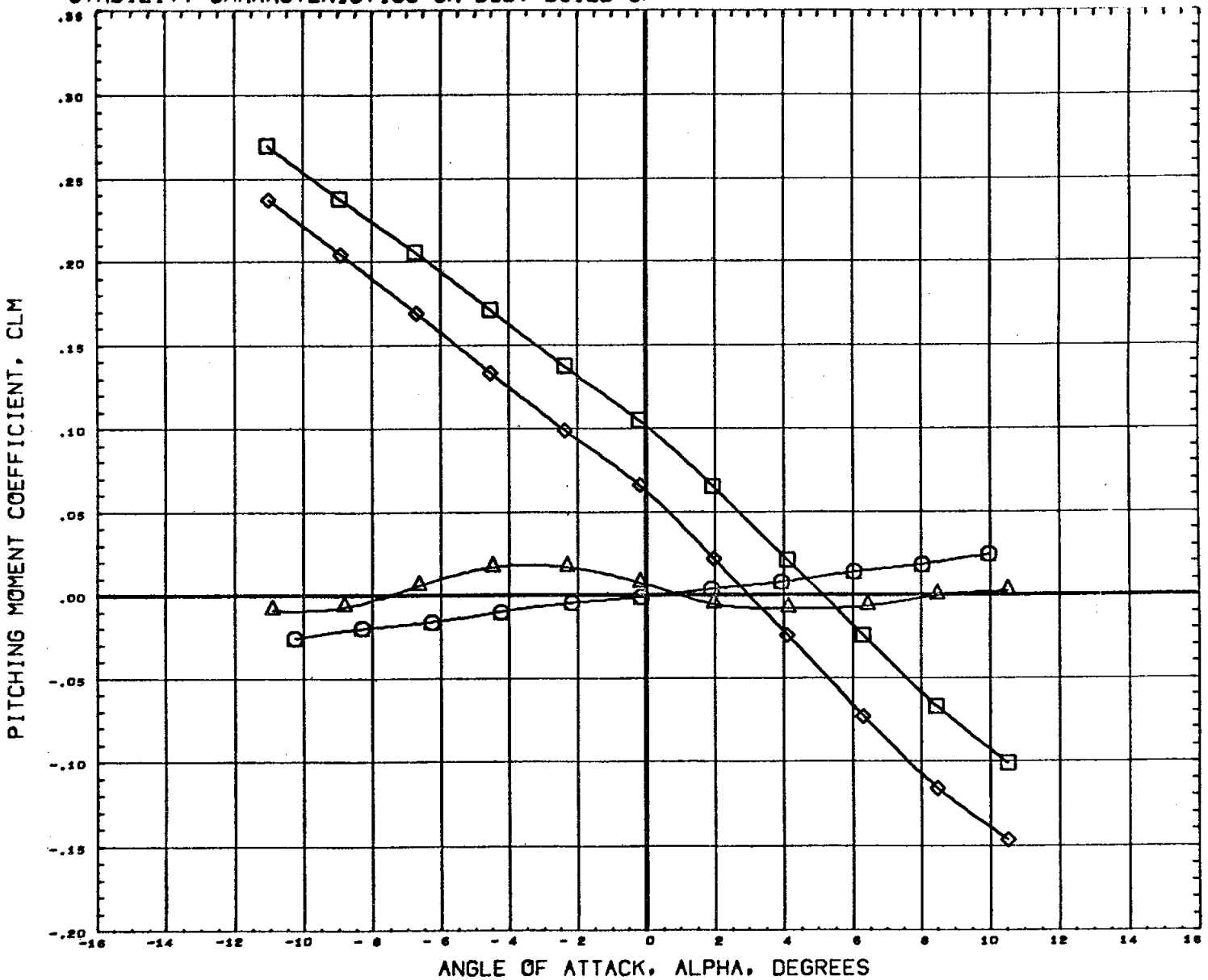


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(G77002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	60.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (02)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP

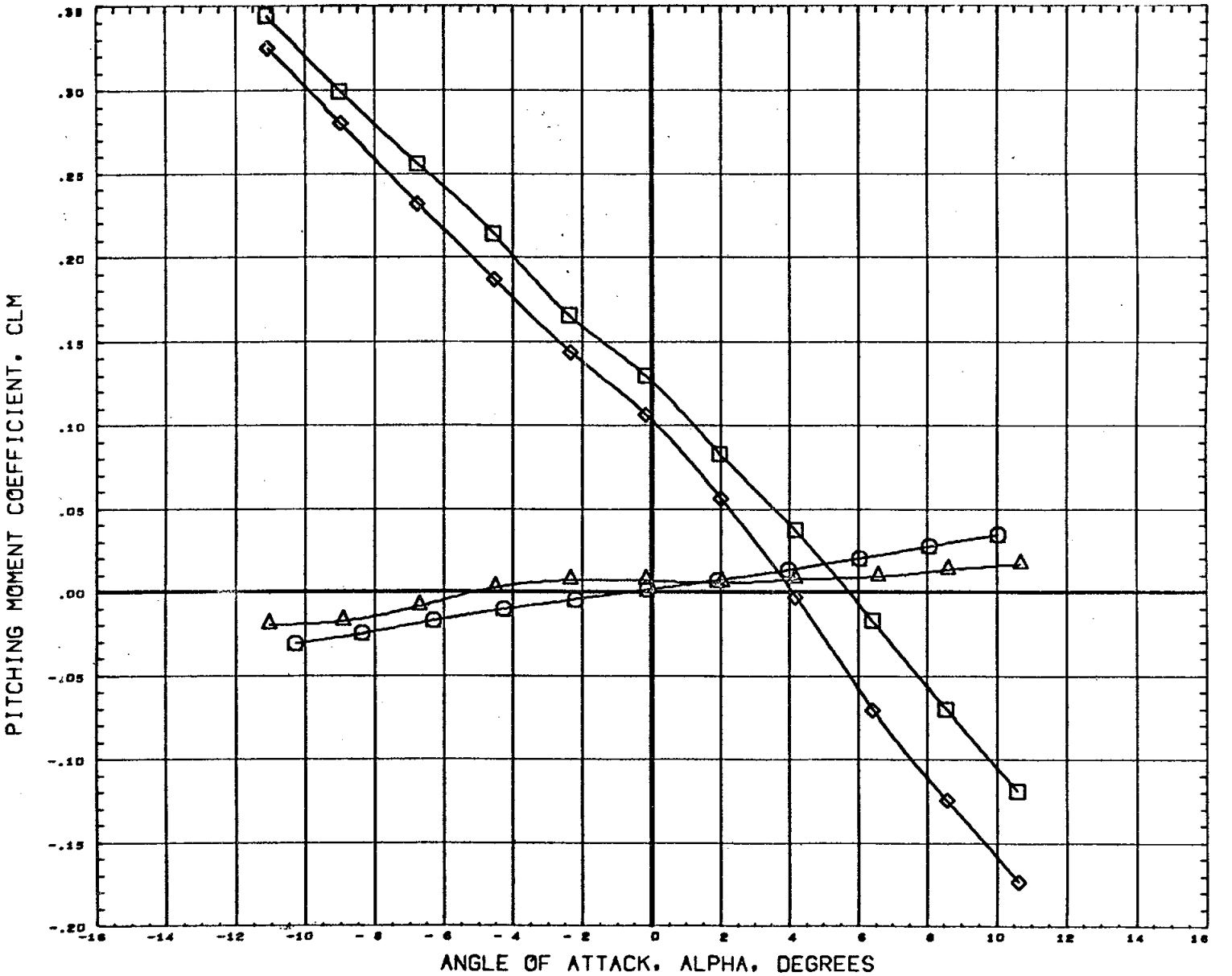


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP

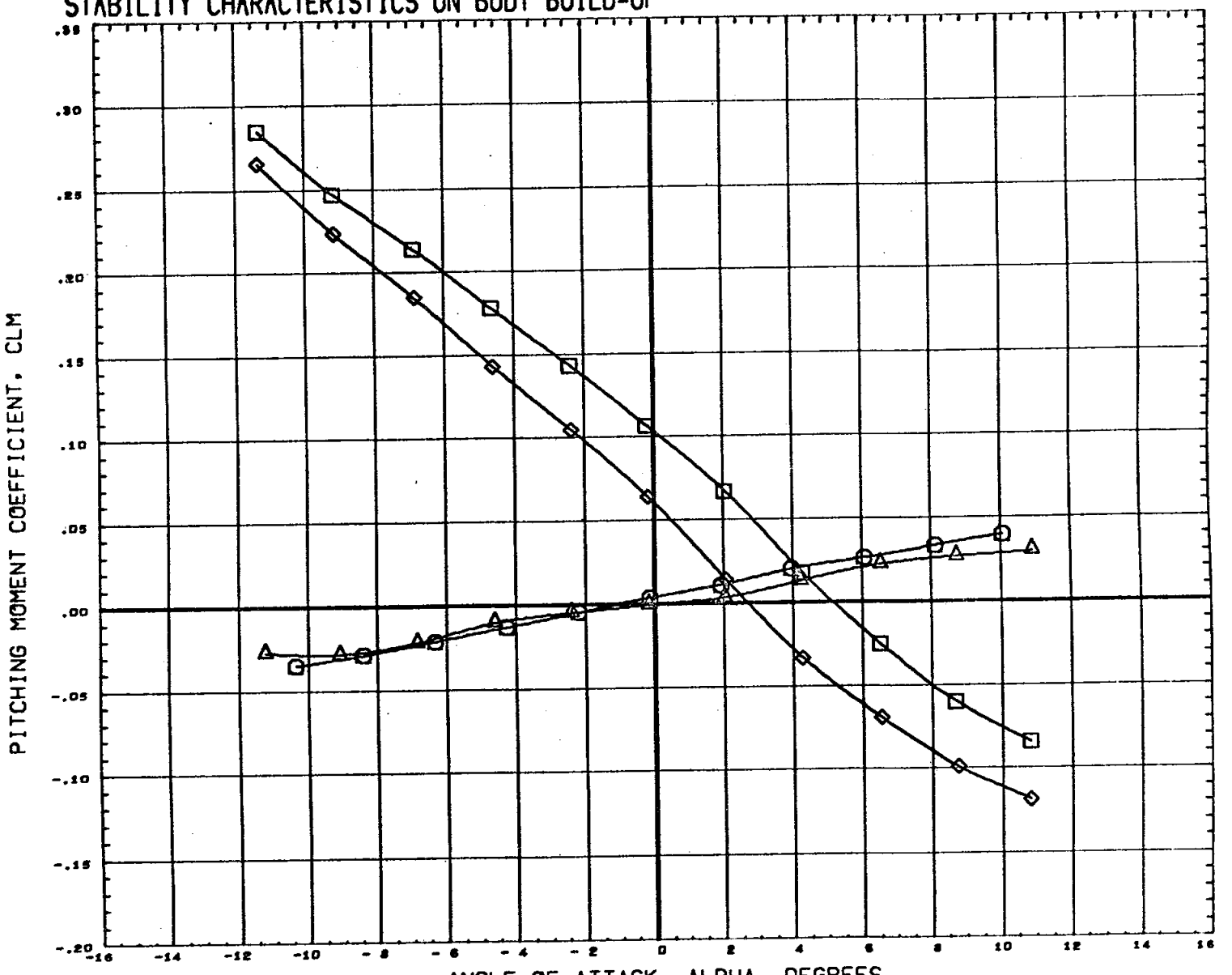


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP



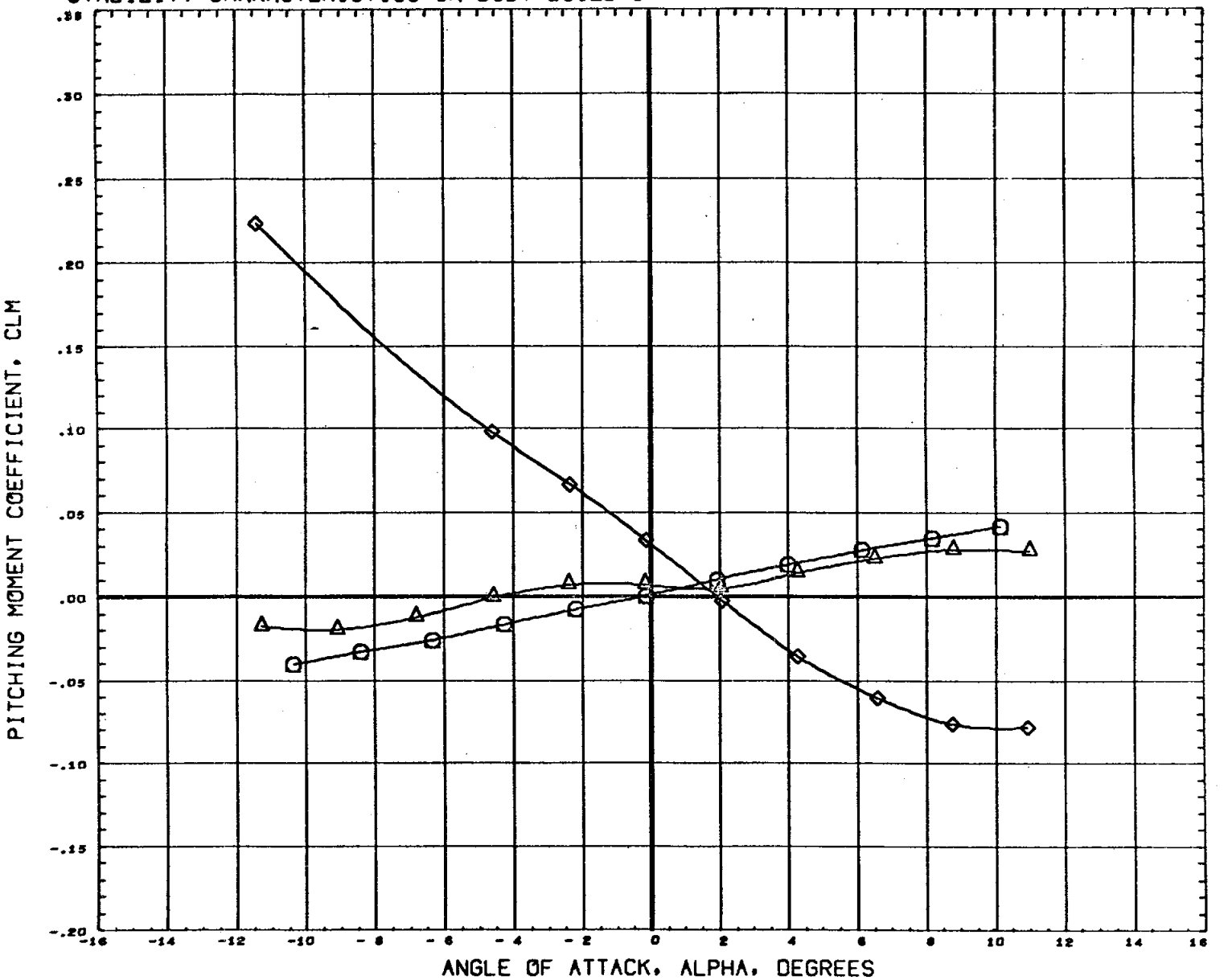
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

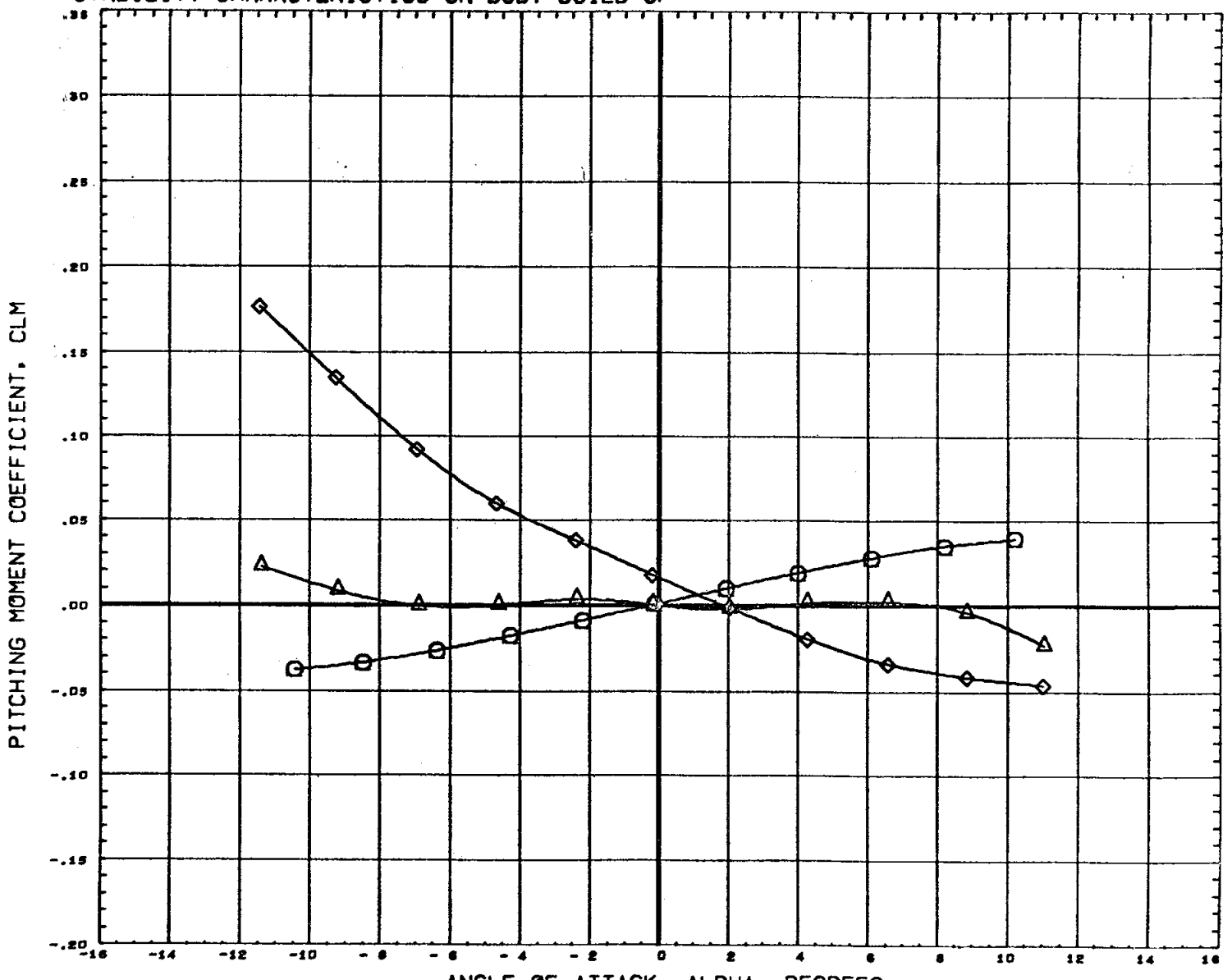


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP



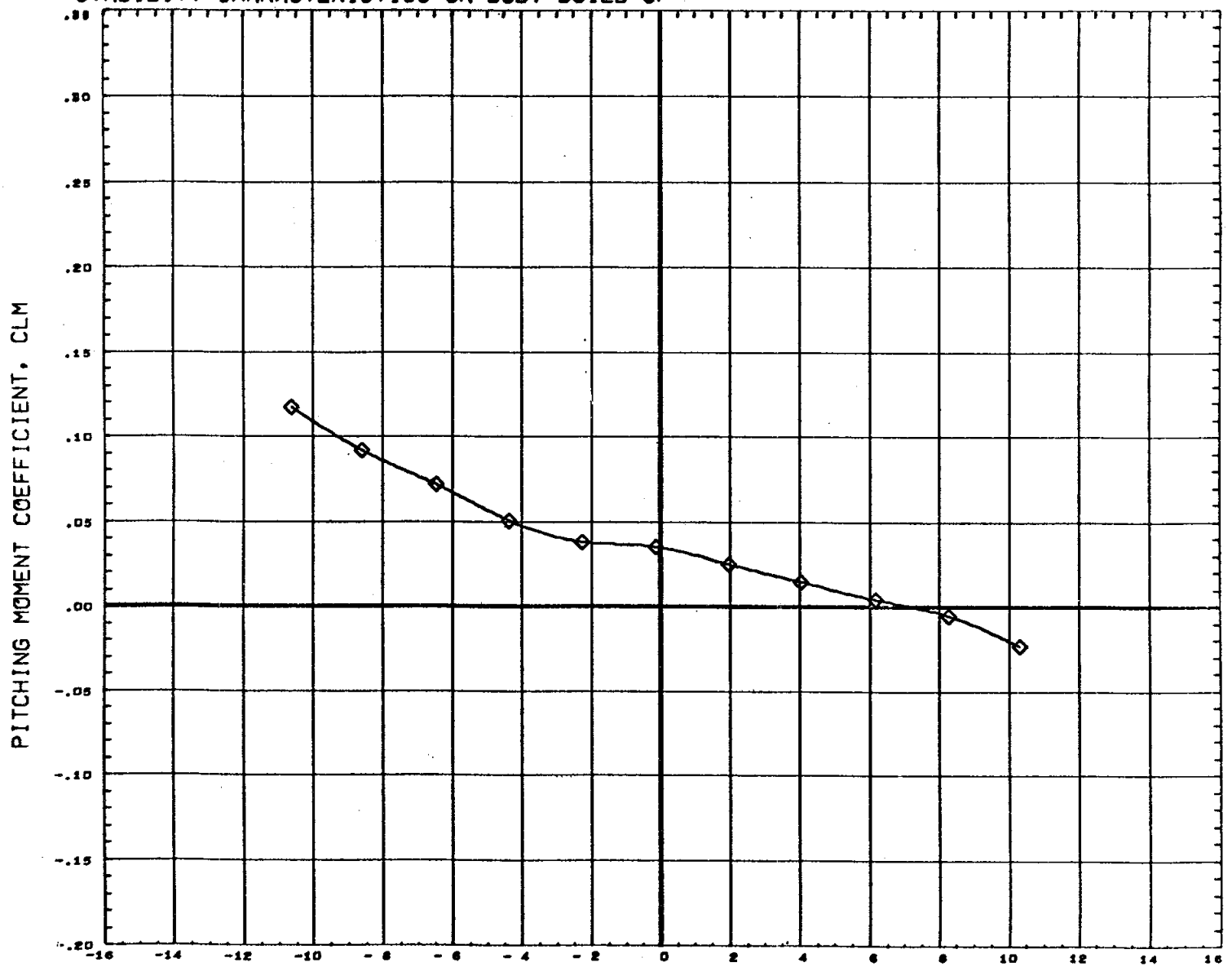
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

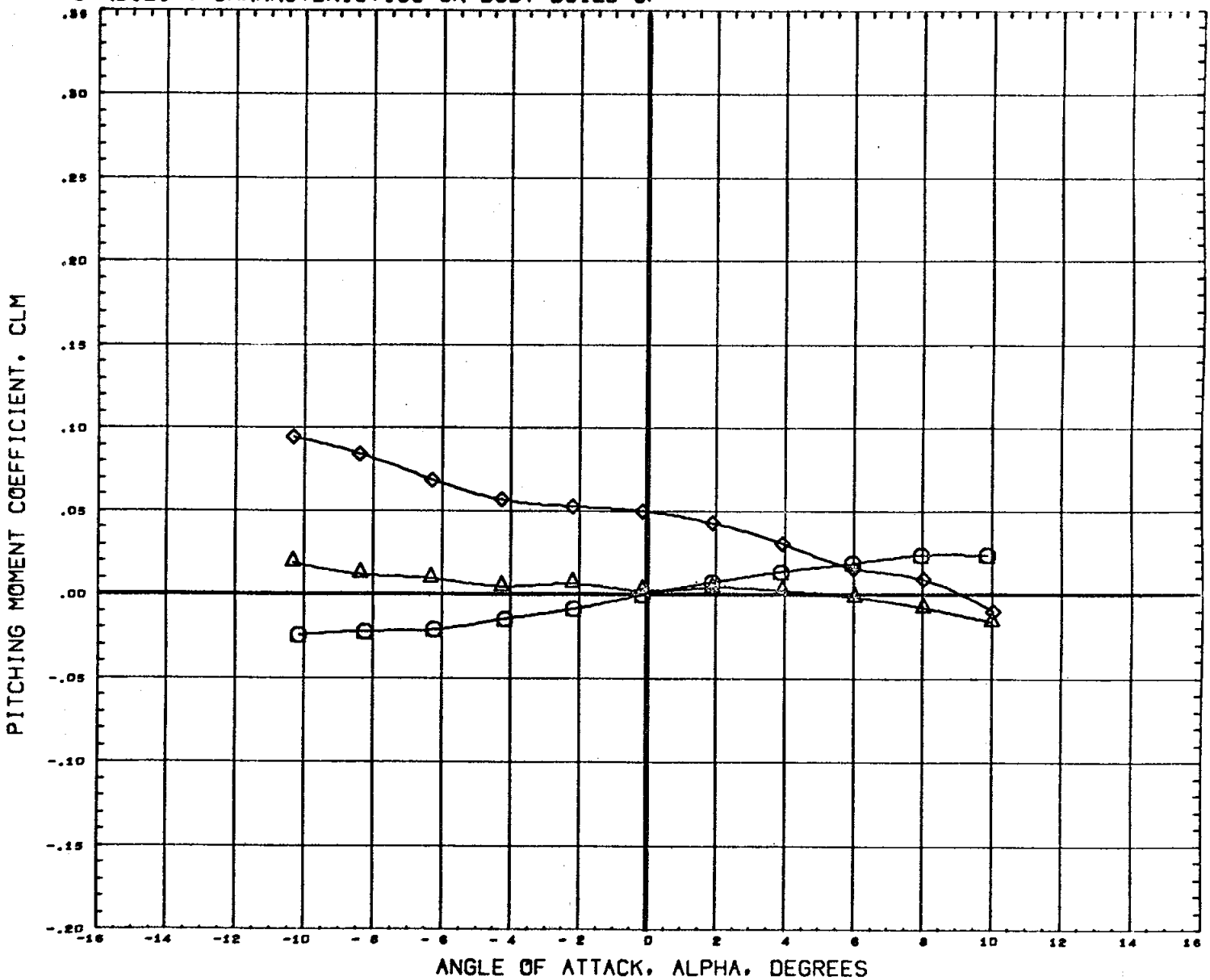


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	60.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP



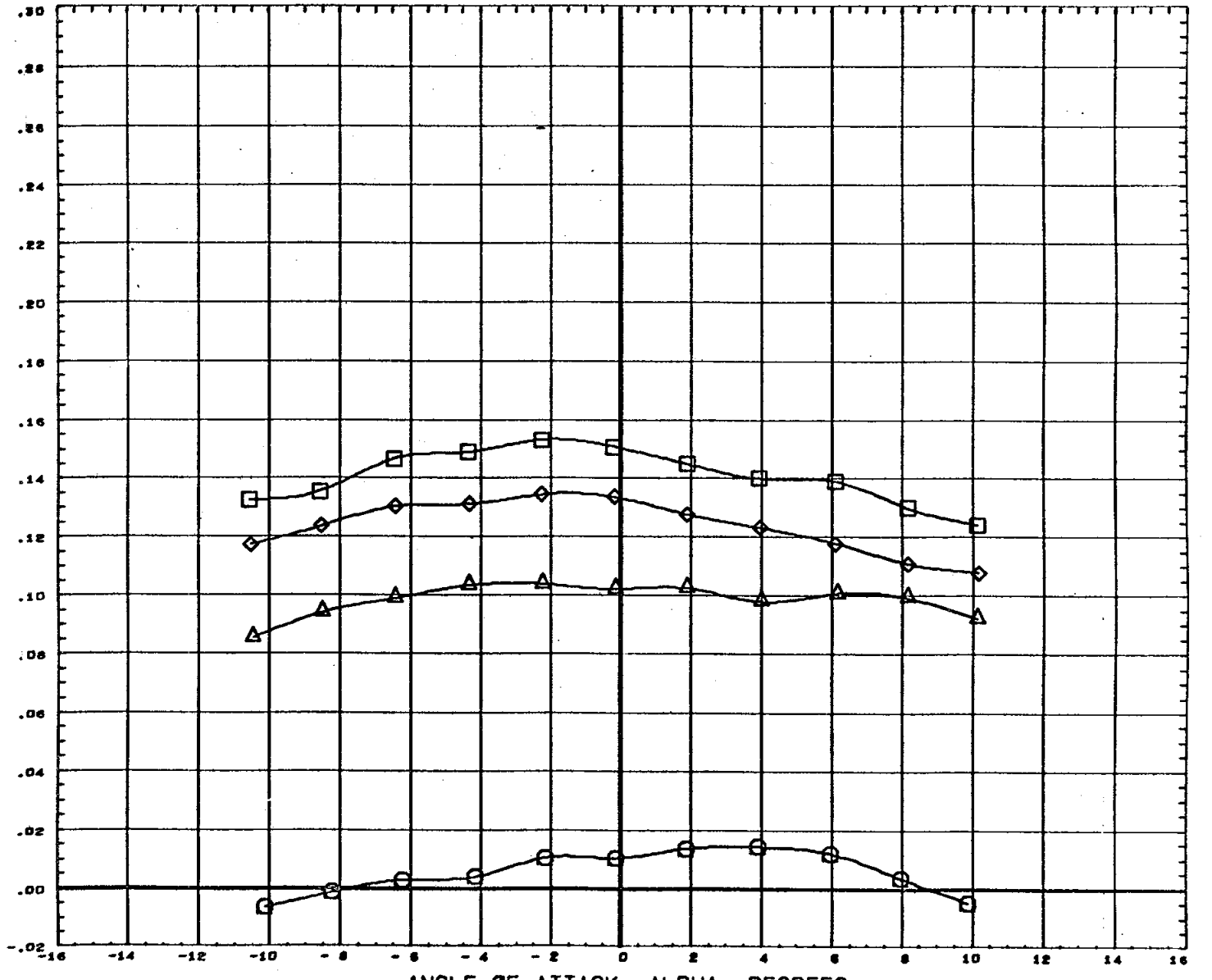
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

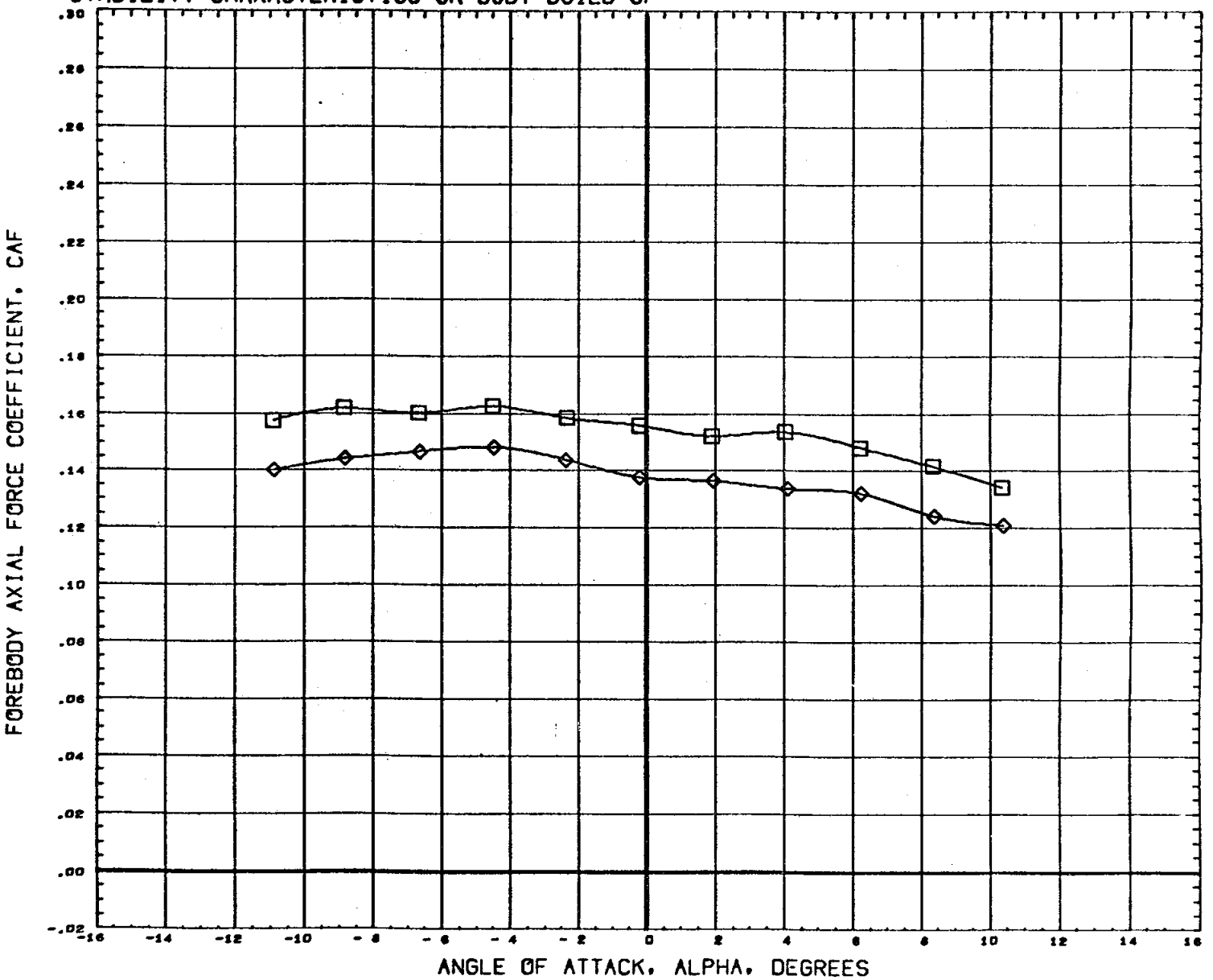


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	60.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	60.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

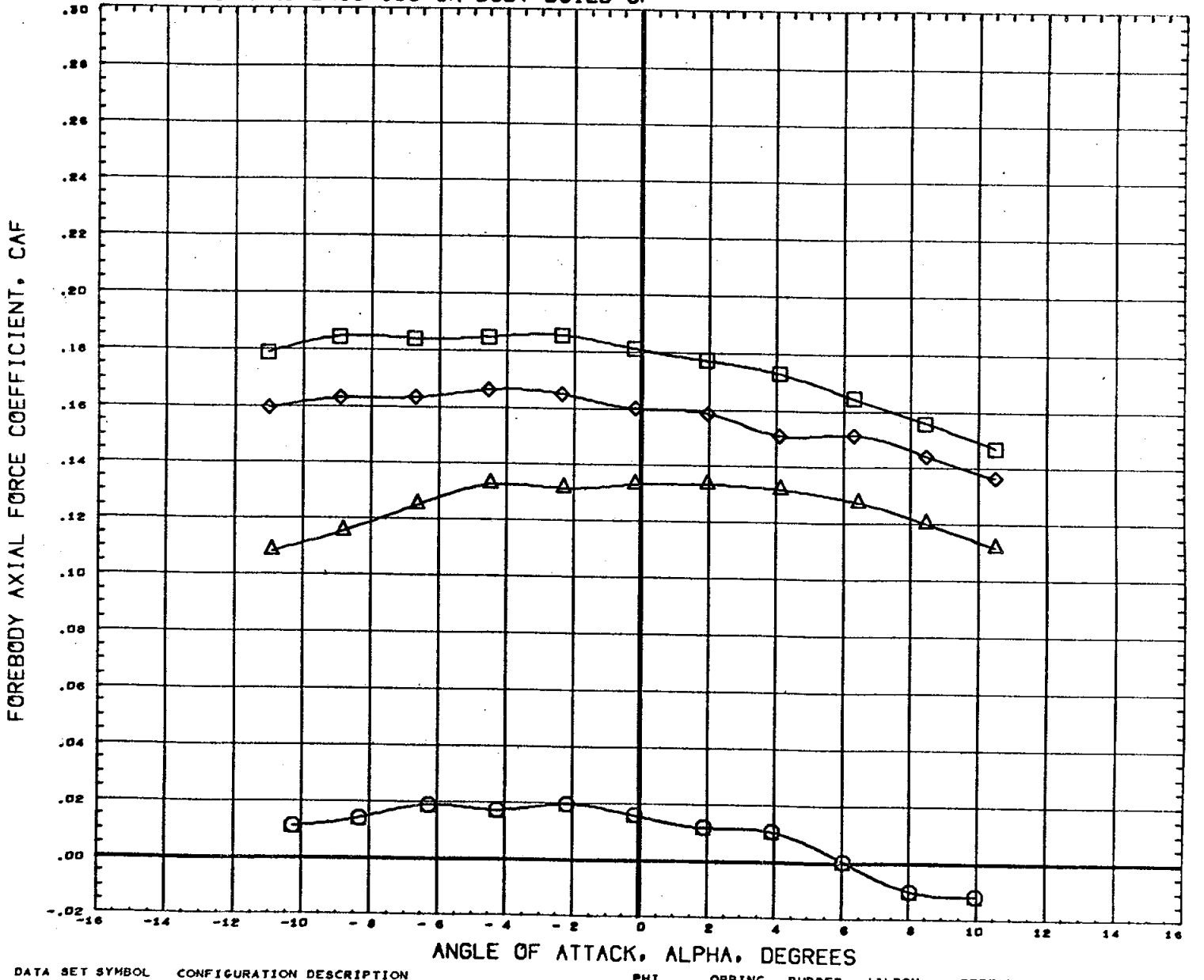


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)		DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)		M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)		M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(G77008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

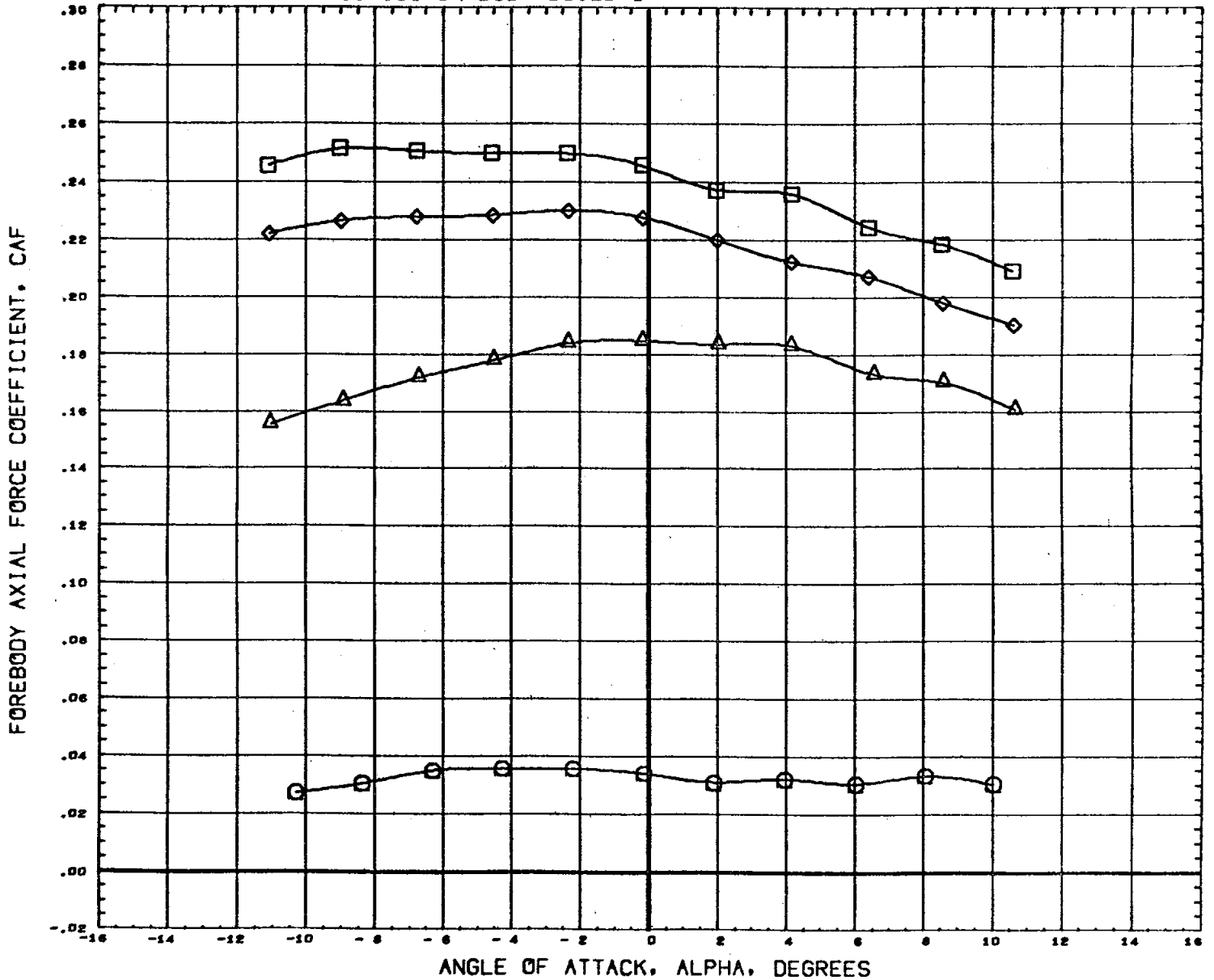
PHI	ORBINC	RUDDER	AILRON
90.000			
90.000	0.000	0.000	0.000
90.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP

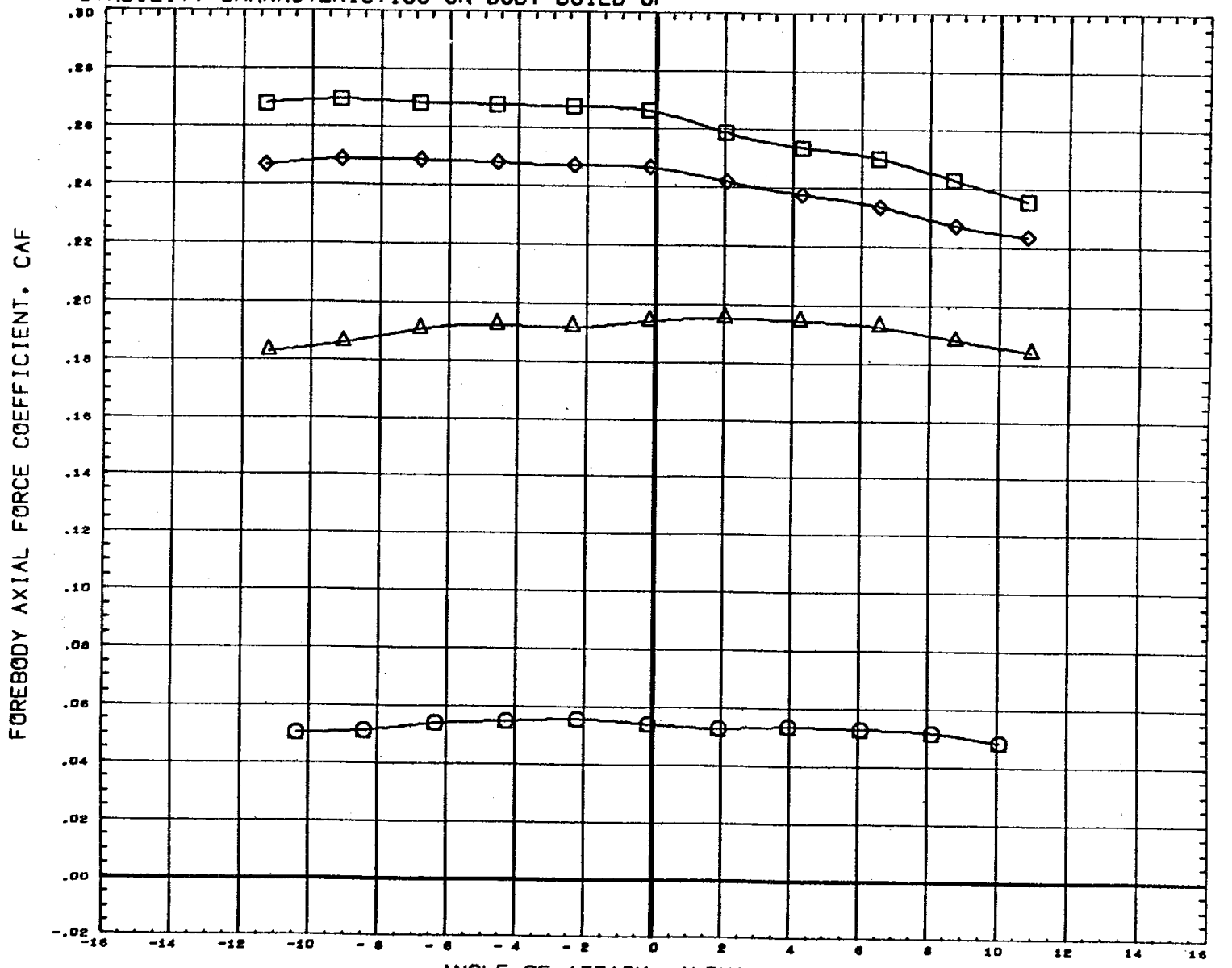


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)		M556(IA1) NAR ATP BL LV (T3)				
(G77002)		M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(G77006)		M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(G77008)		M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP



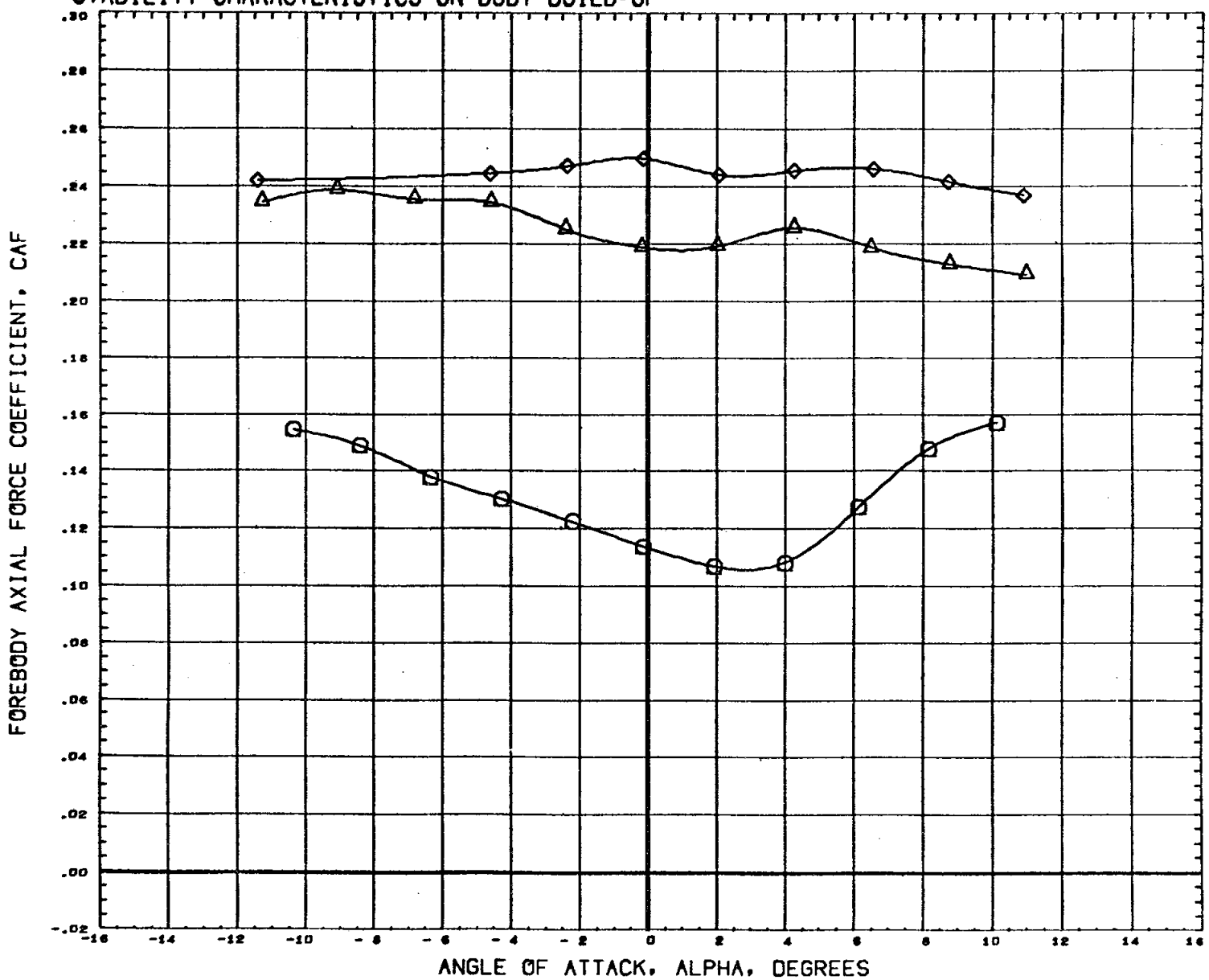
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

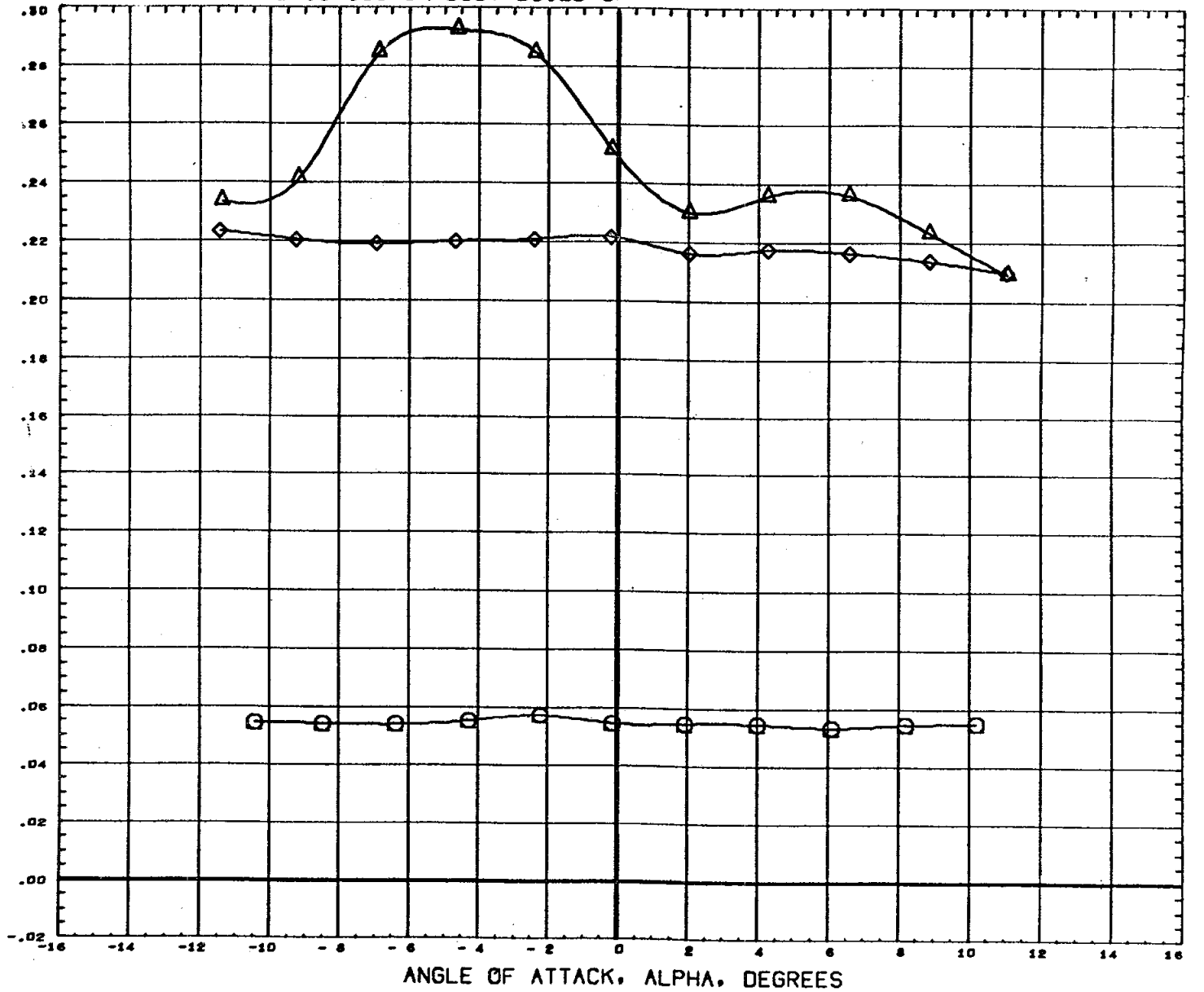


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP



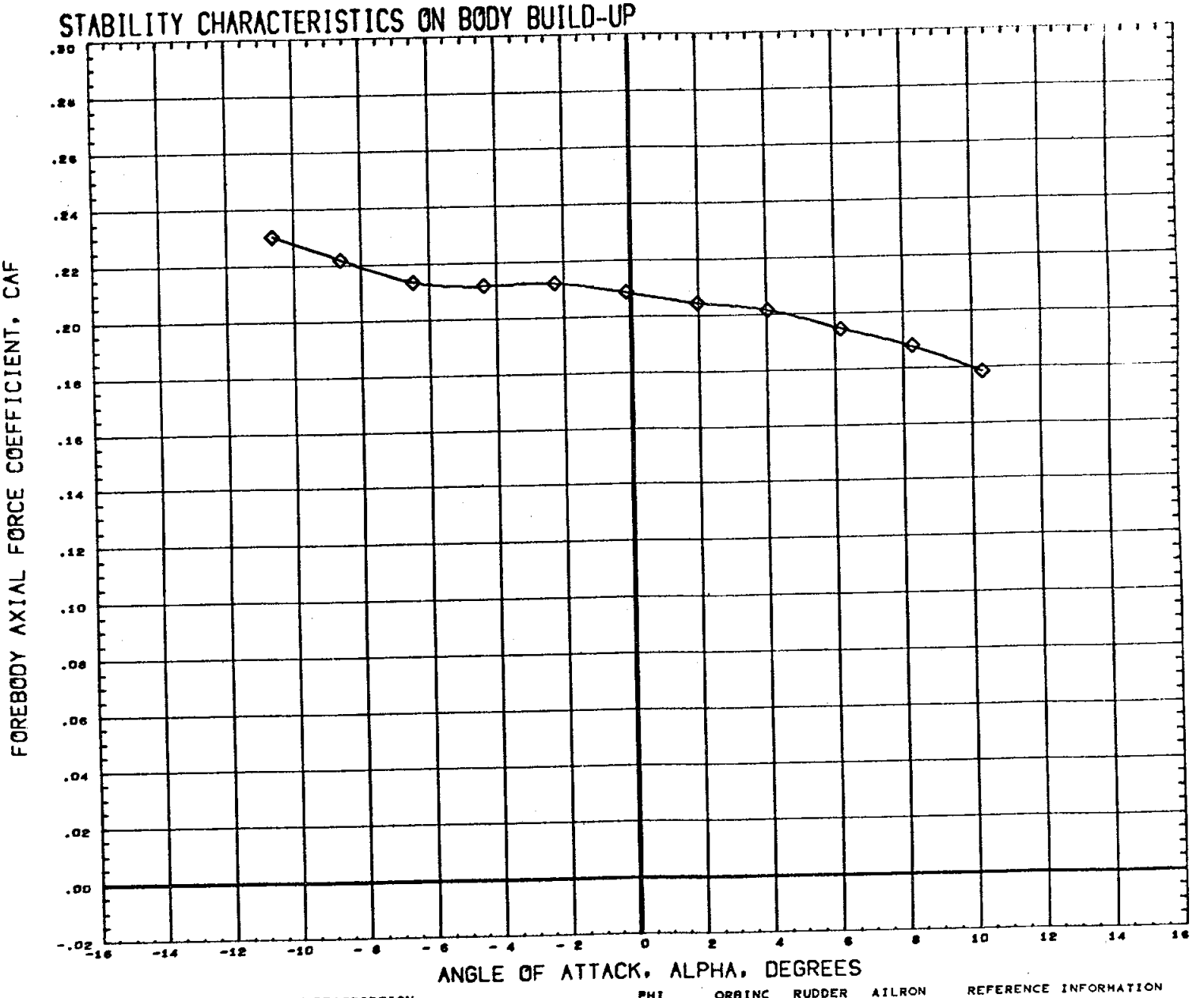
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
90.000			
90.000	0.000	0.000	0.000
90.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)		M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(G77008)		DATA NOT AVAILABLE FOR ALL CONDITIONS

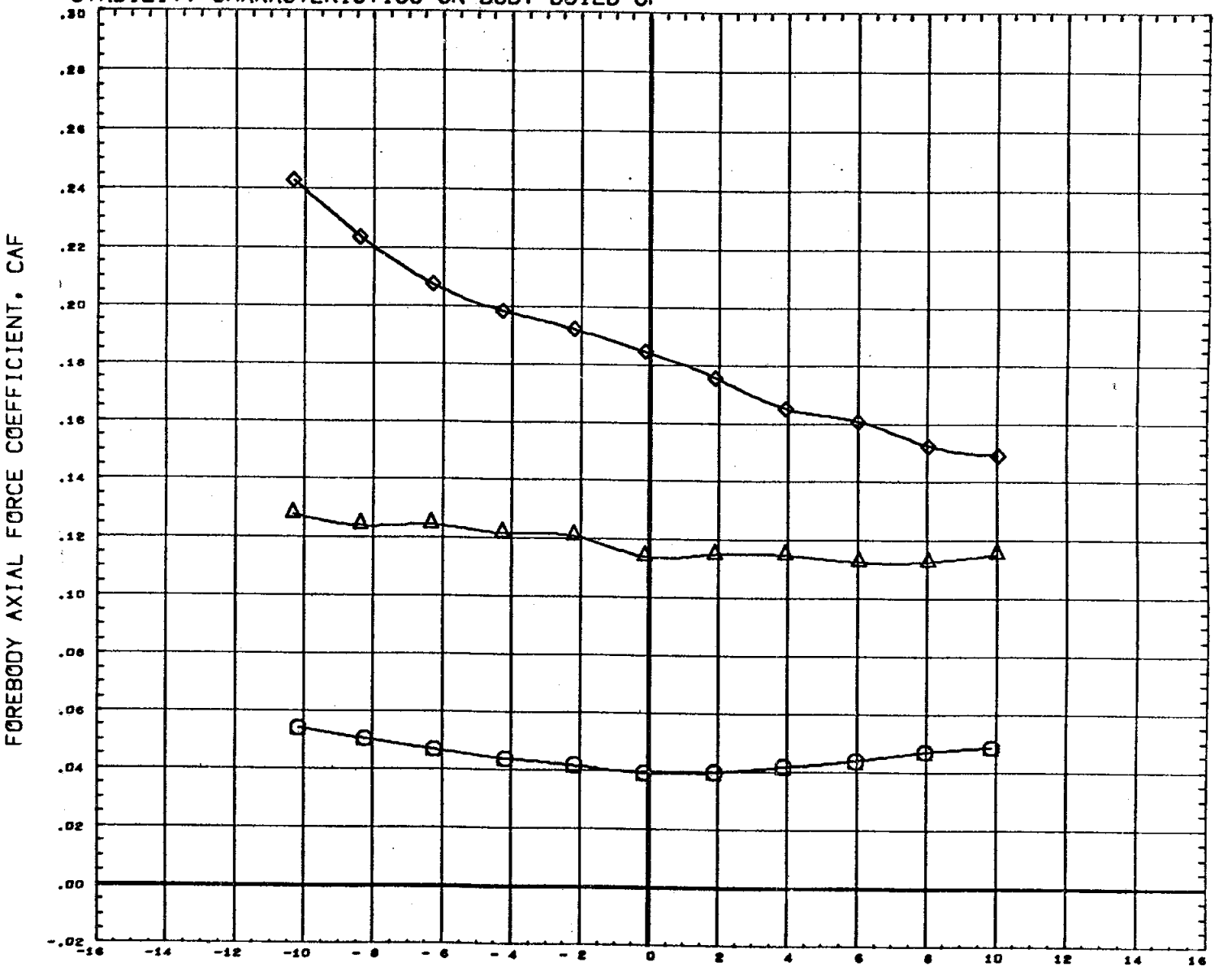
PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP



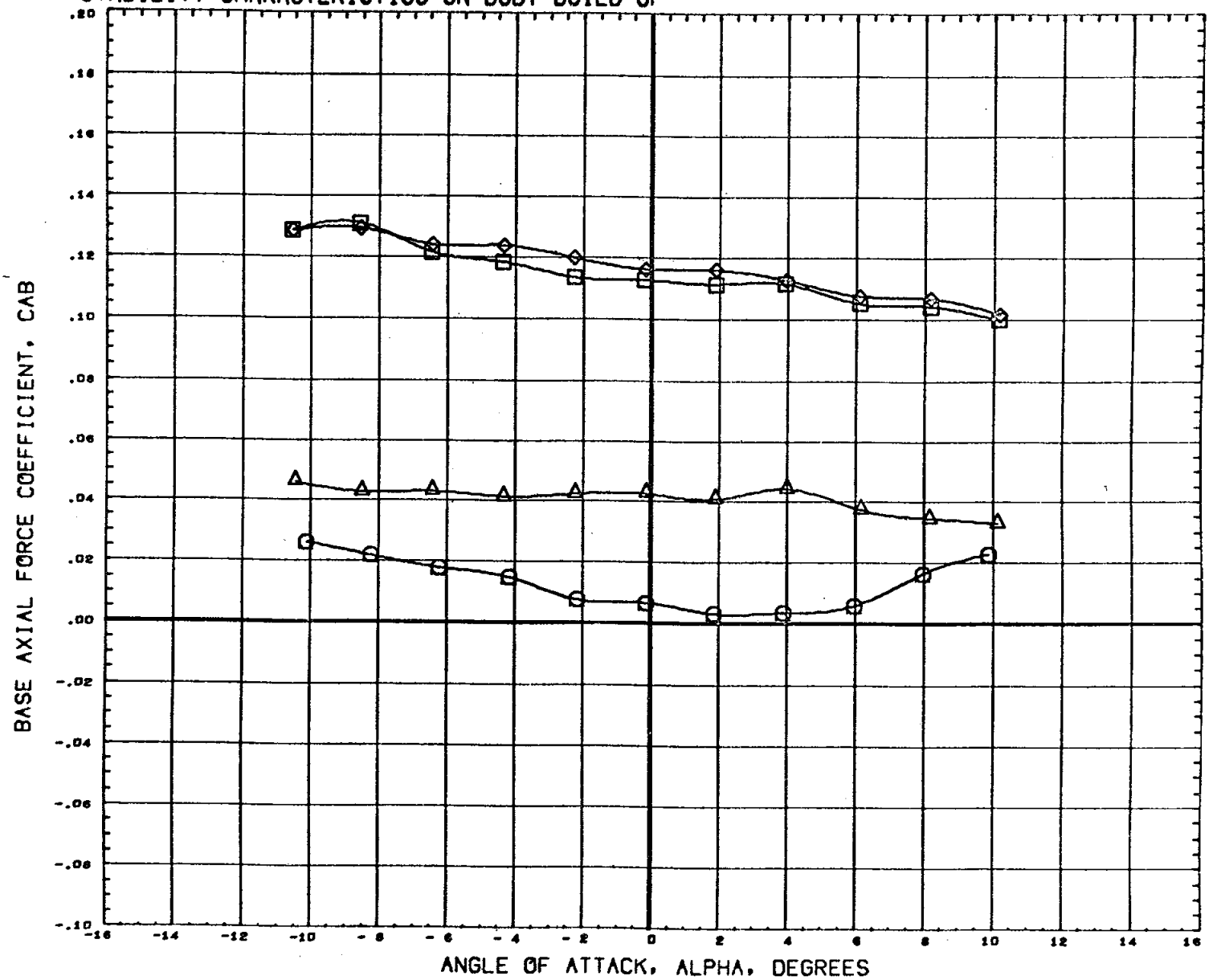
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677001)	○	M556(IA1) NAR ATP BL LV (T3)
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP



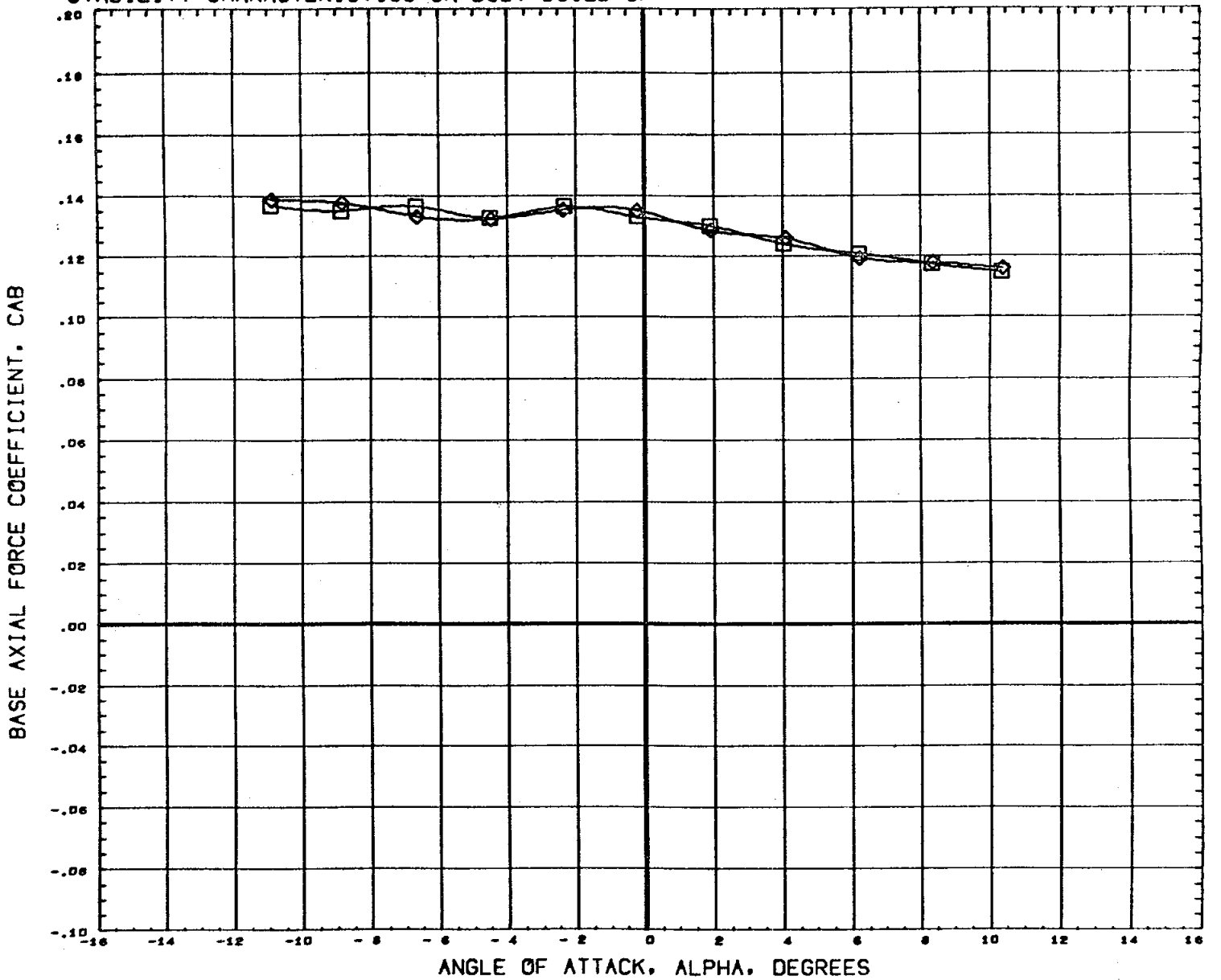
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)		M556(IA1) NAR ATP BL LV (T3)	80.000			
(G77002)		M556(IA1) NAR ATP BL LV (T3)(S1)	80.000	0.000	0.000	0.000
(G77006)		M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)		M556(IA1) NAR ATP BL LV (O2)(T3)(S1)				

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

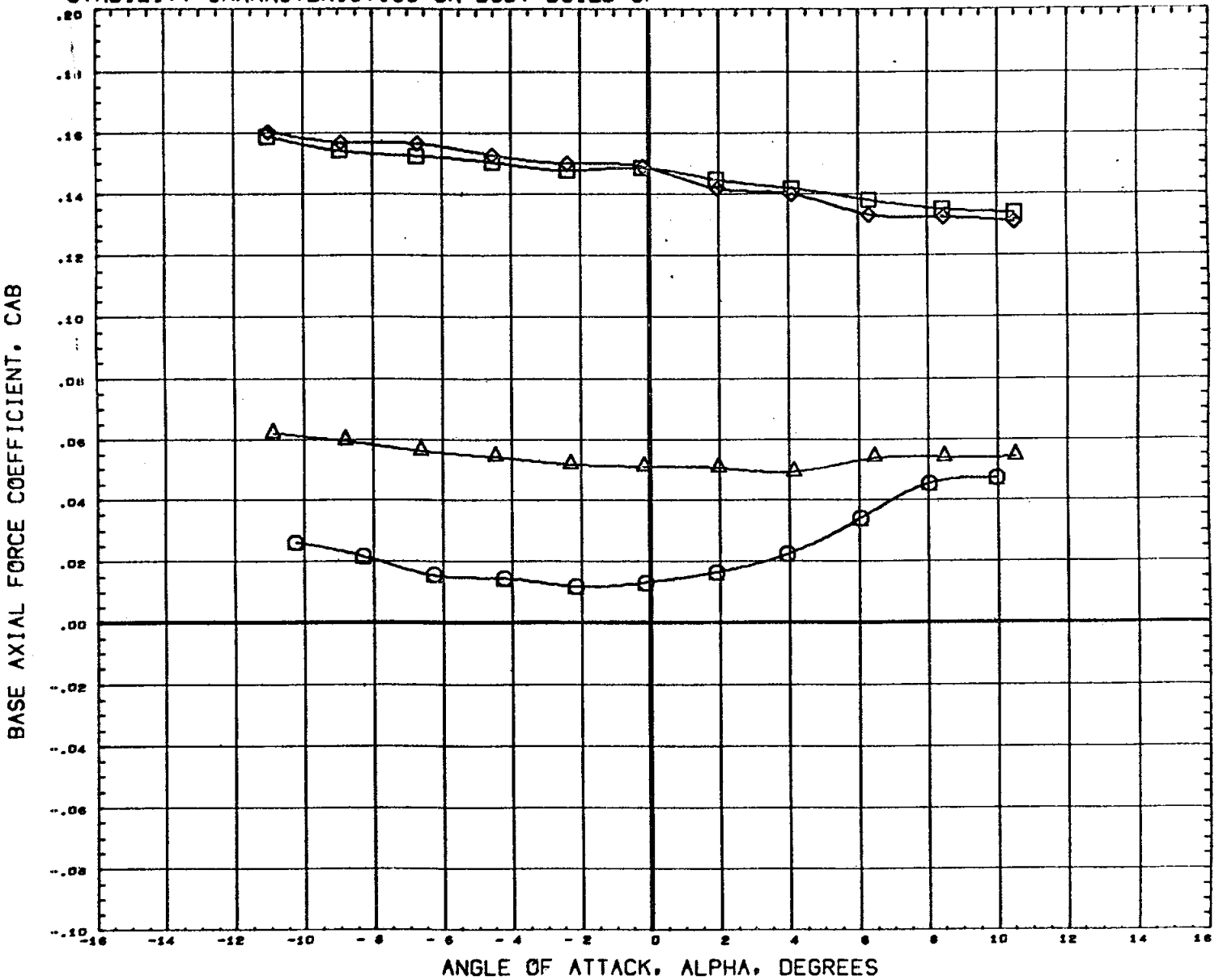


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP

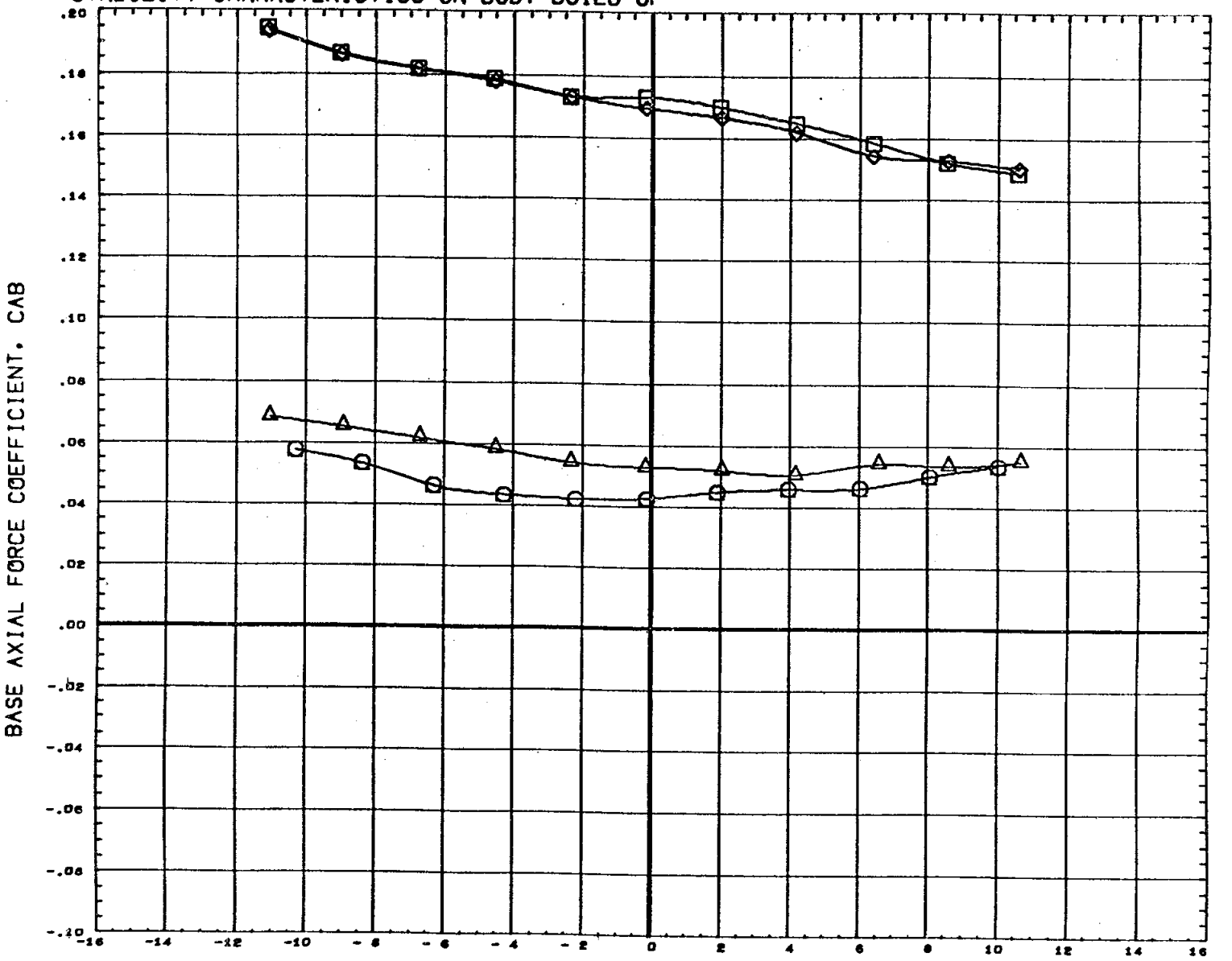


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP



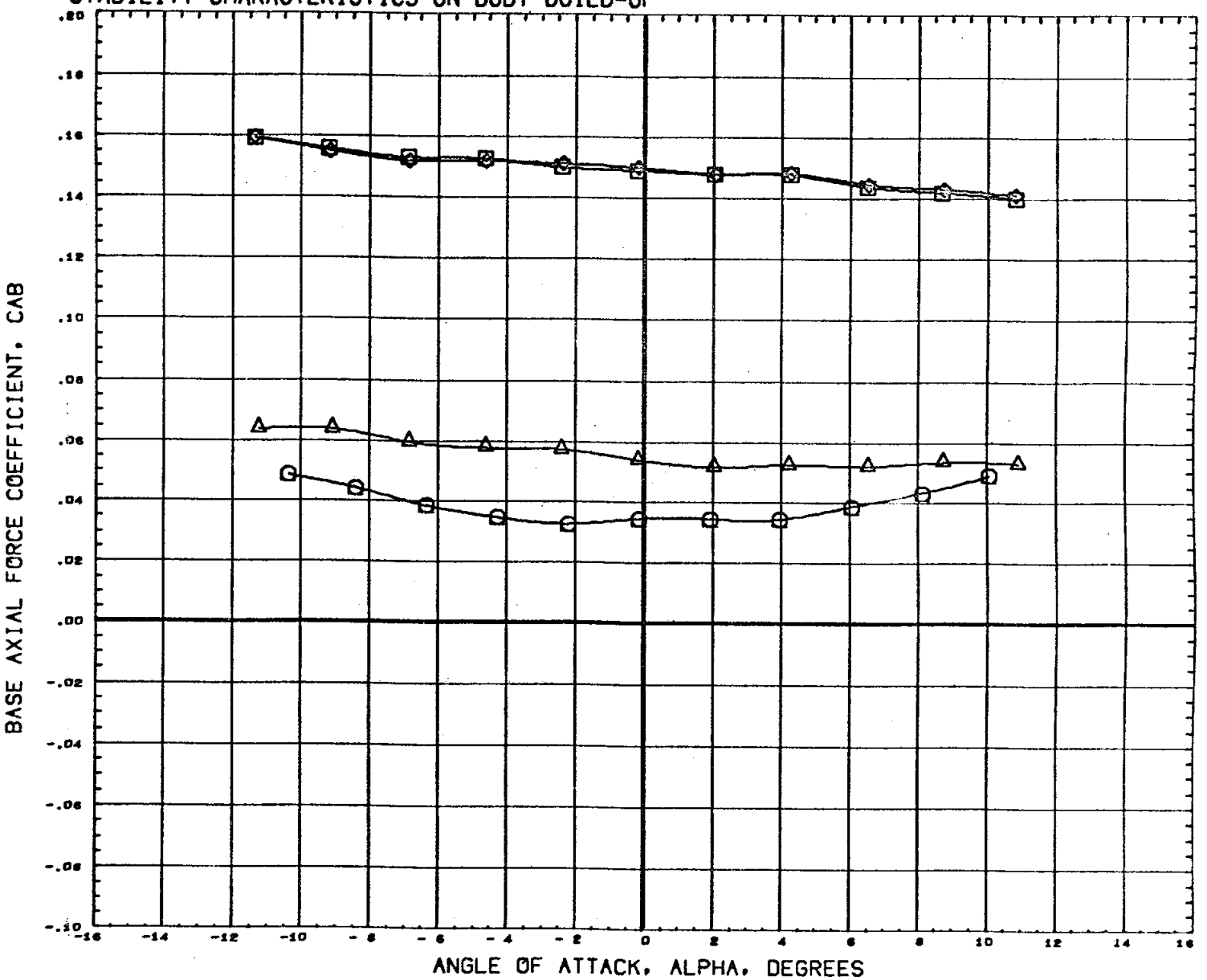
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677001)		M556(IA1) NAR ATP BL LV (T3)
(677002)		M556(IA1) NAR ATP BL LV (T3)(S1)
(677006)		M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(677008)		M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

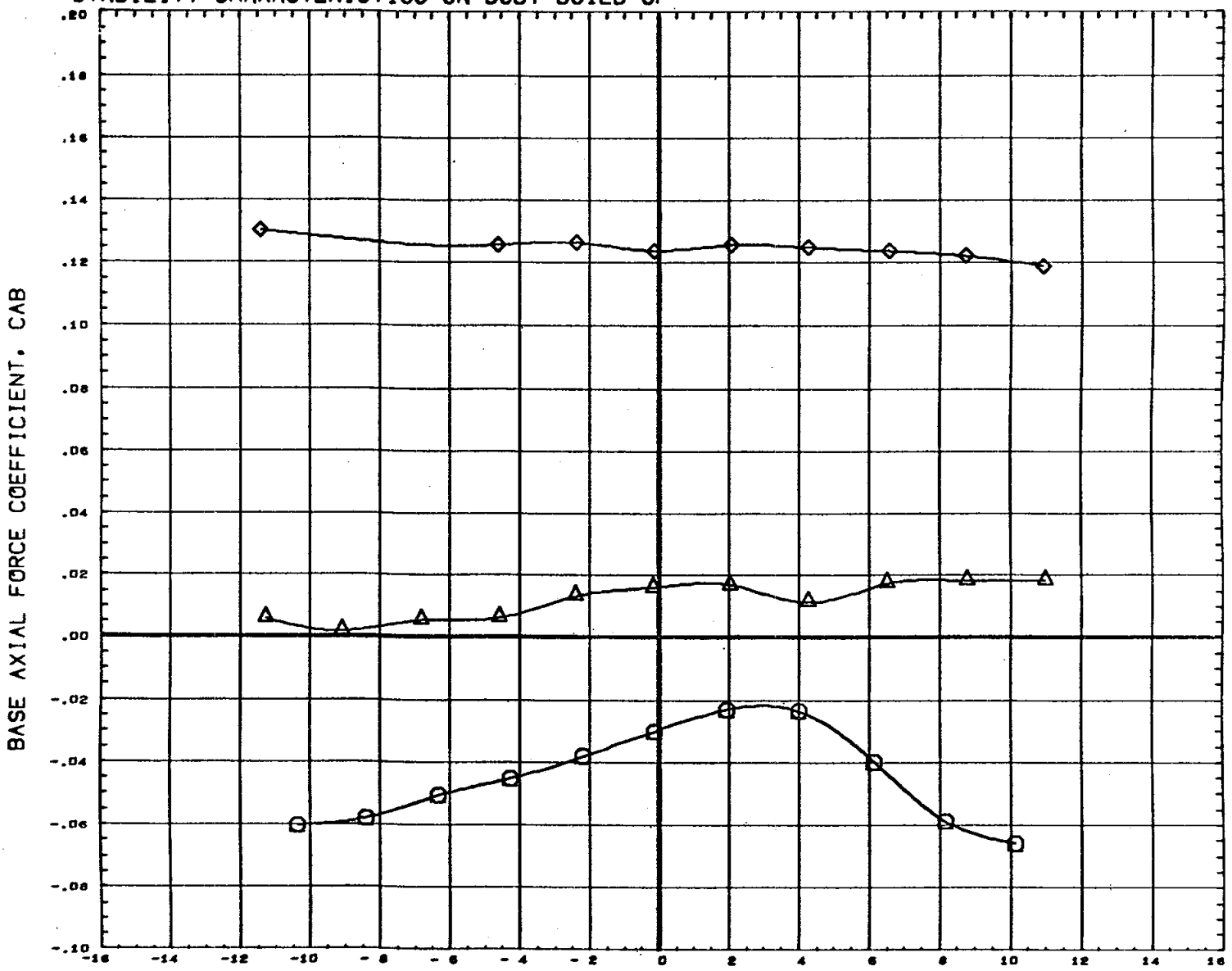


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	60.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

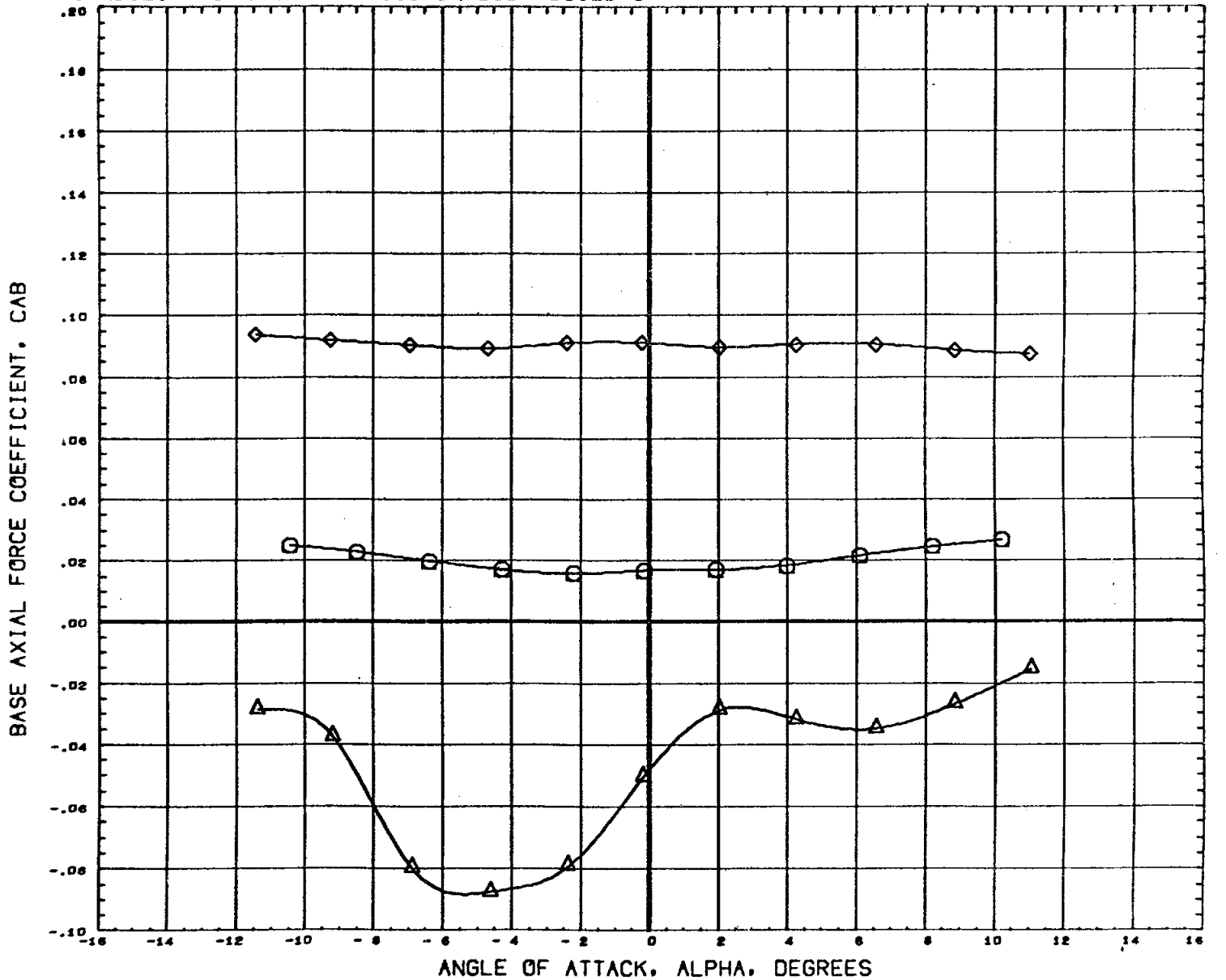


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	⊠	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP

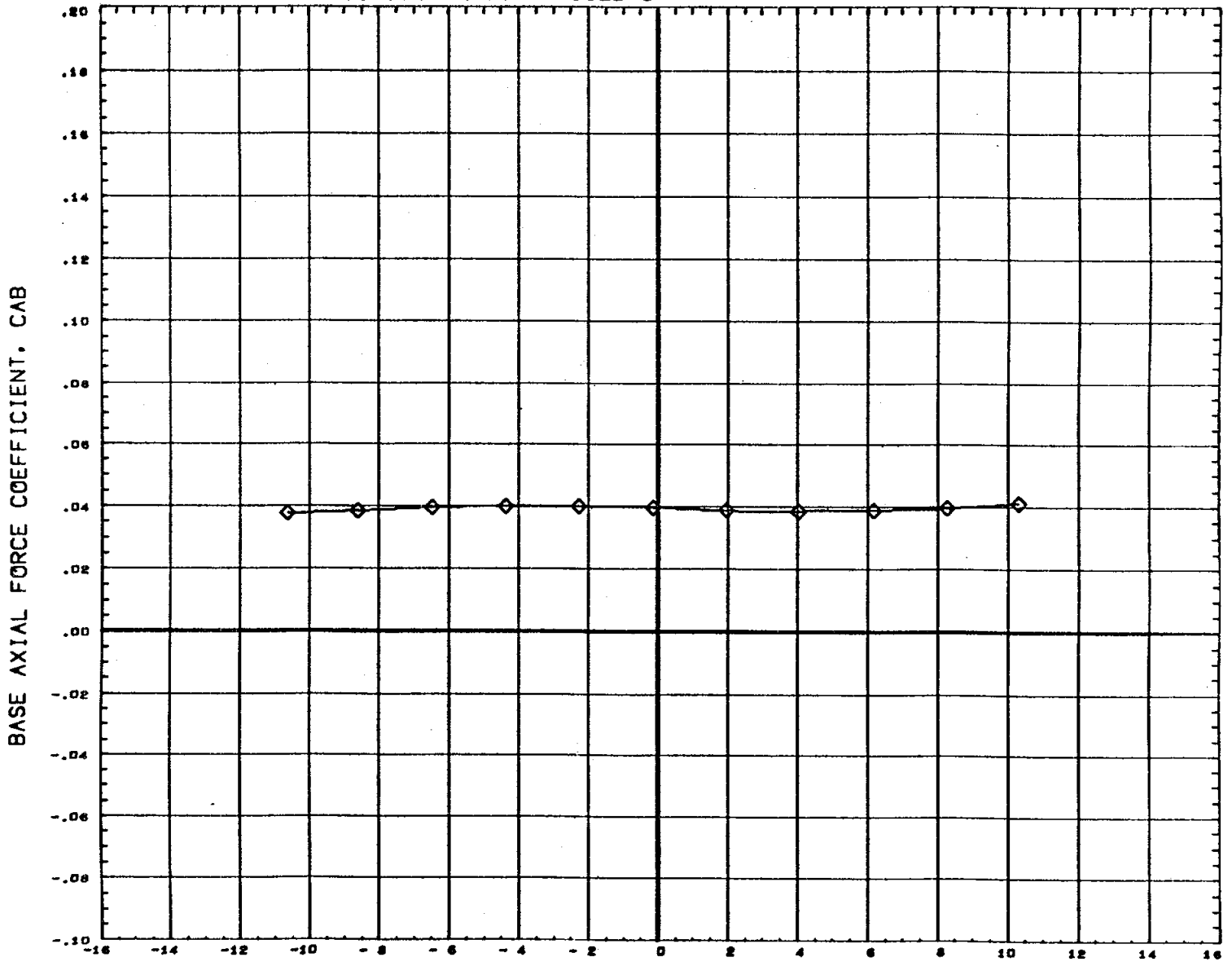


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

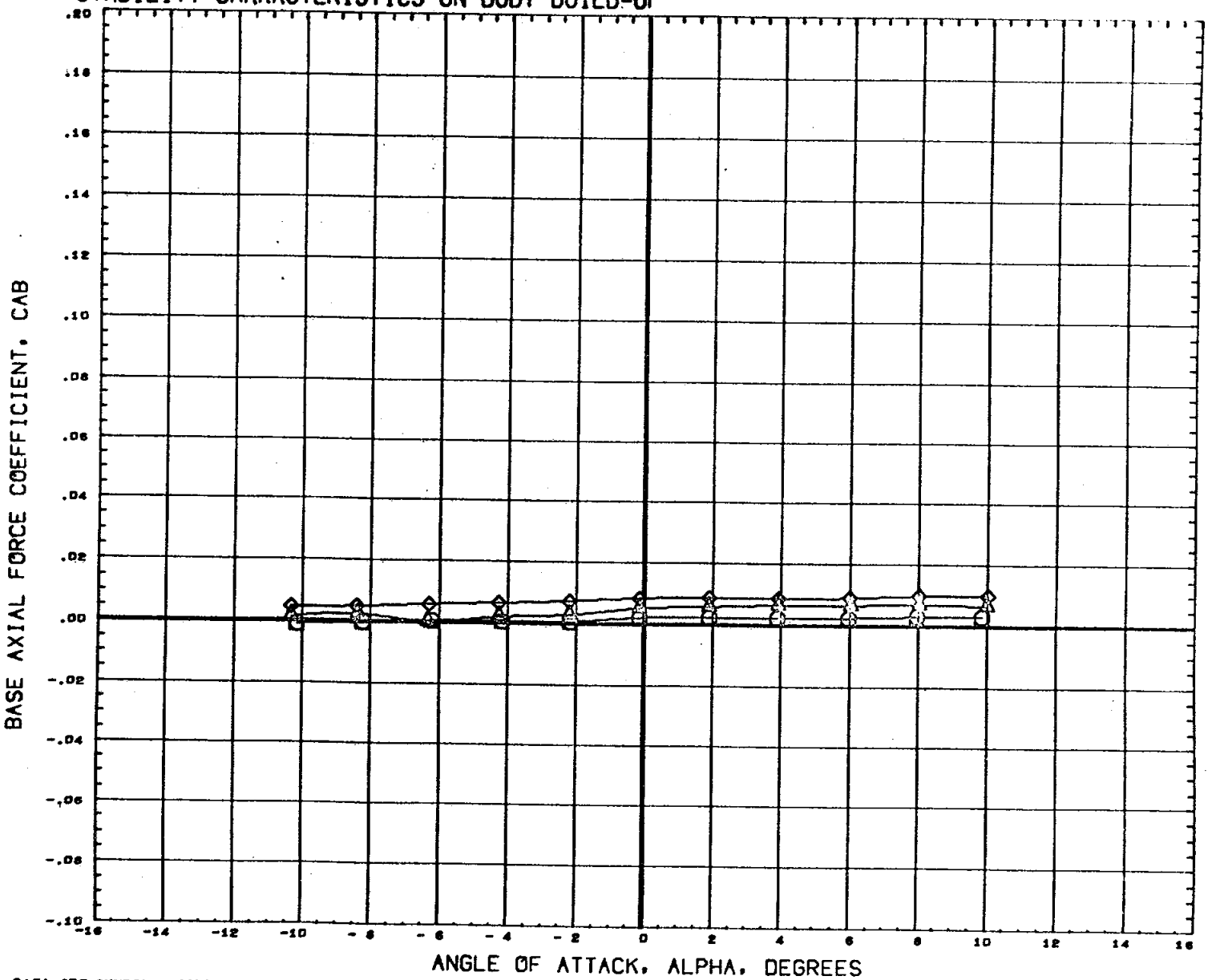


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)		DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP



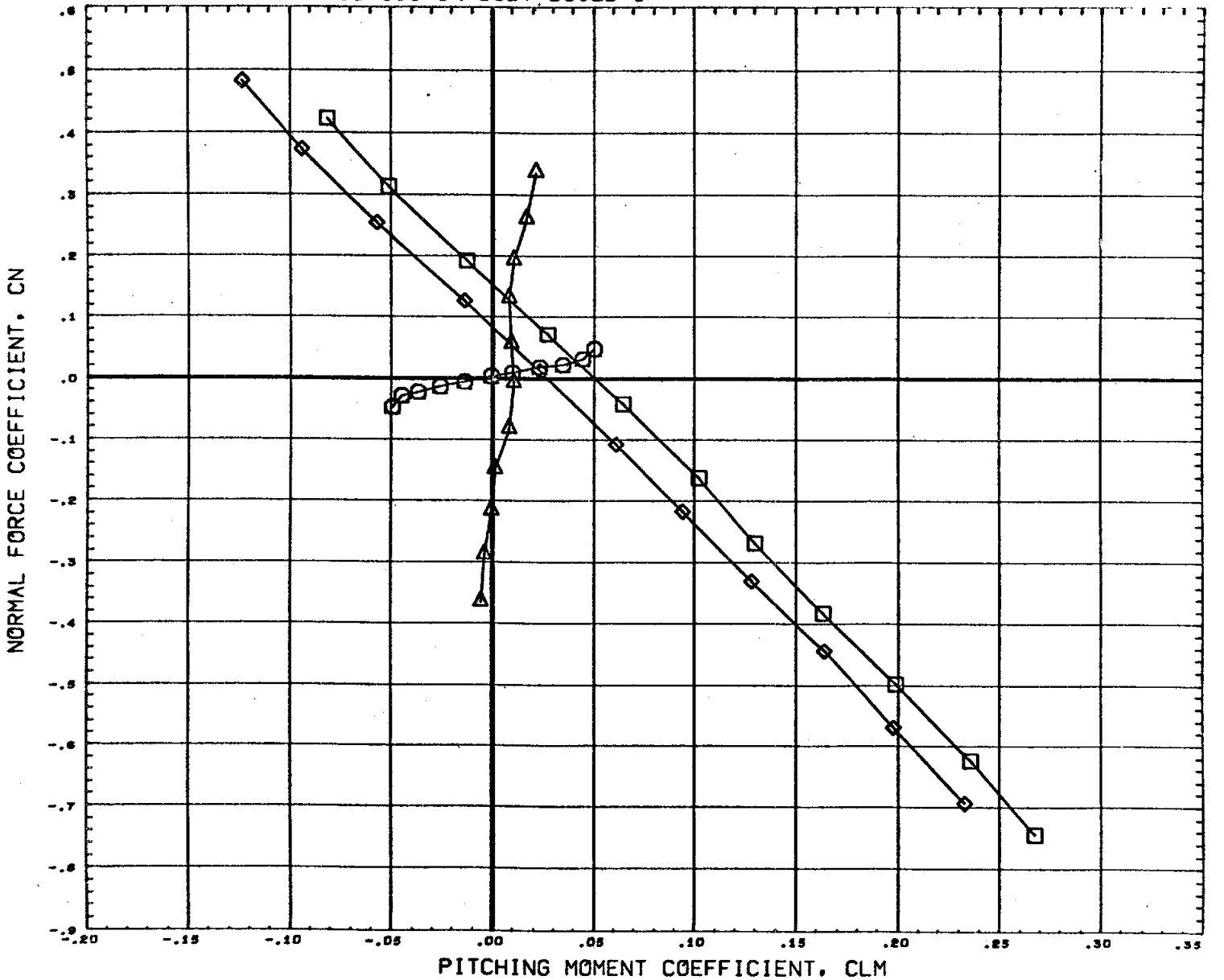
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP



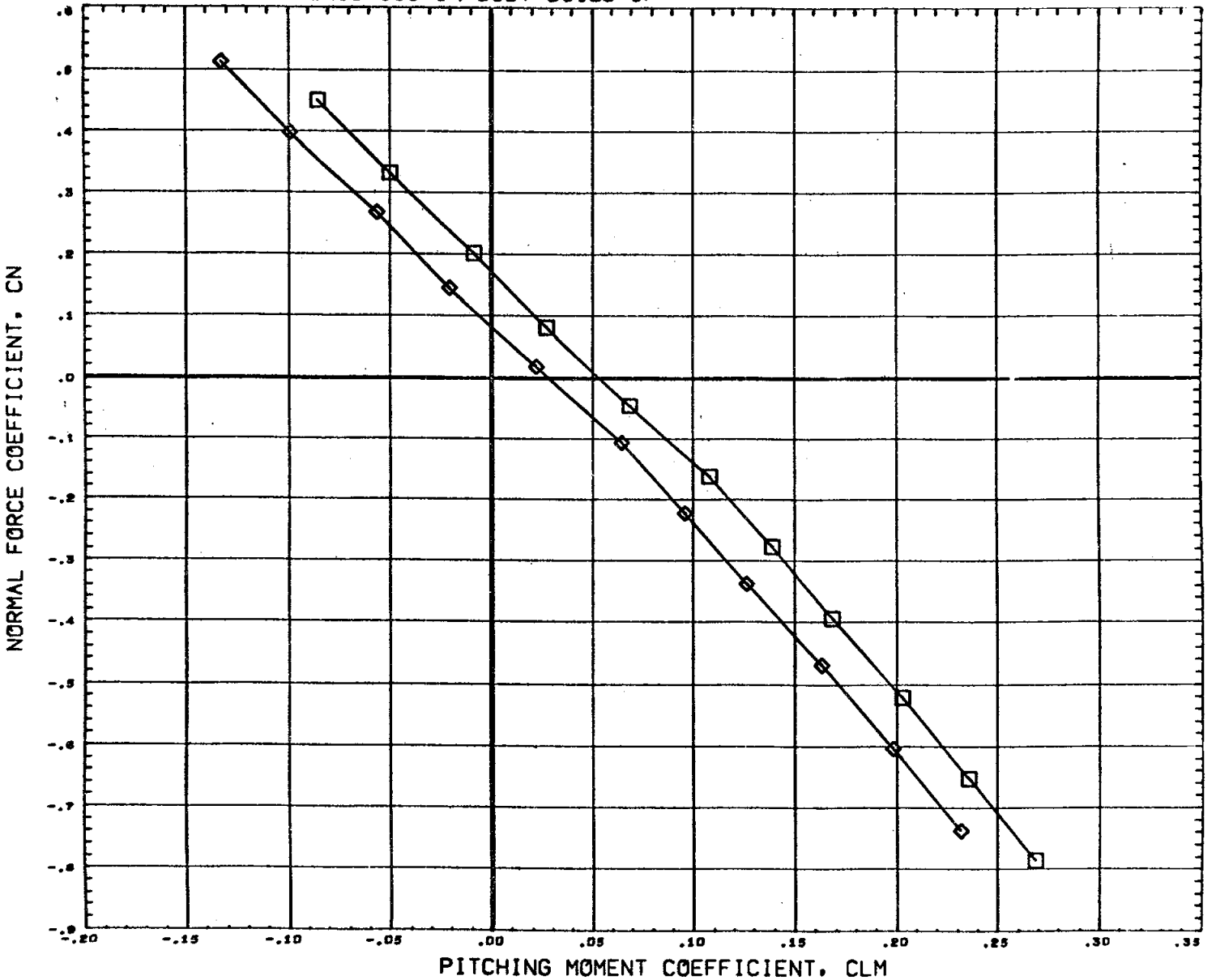
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	60.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	60.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

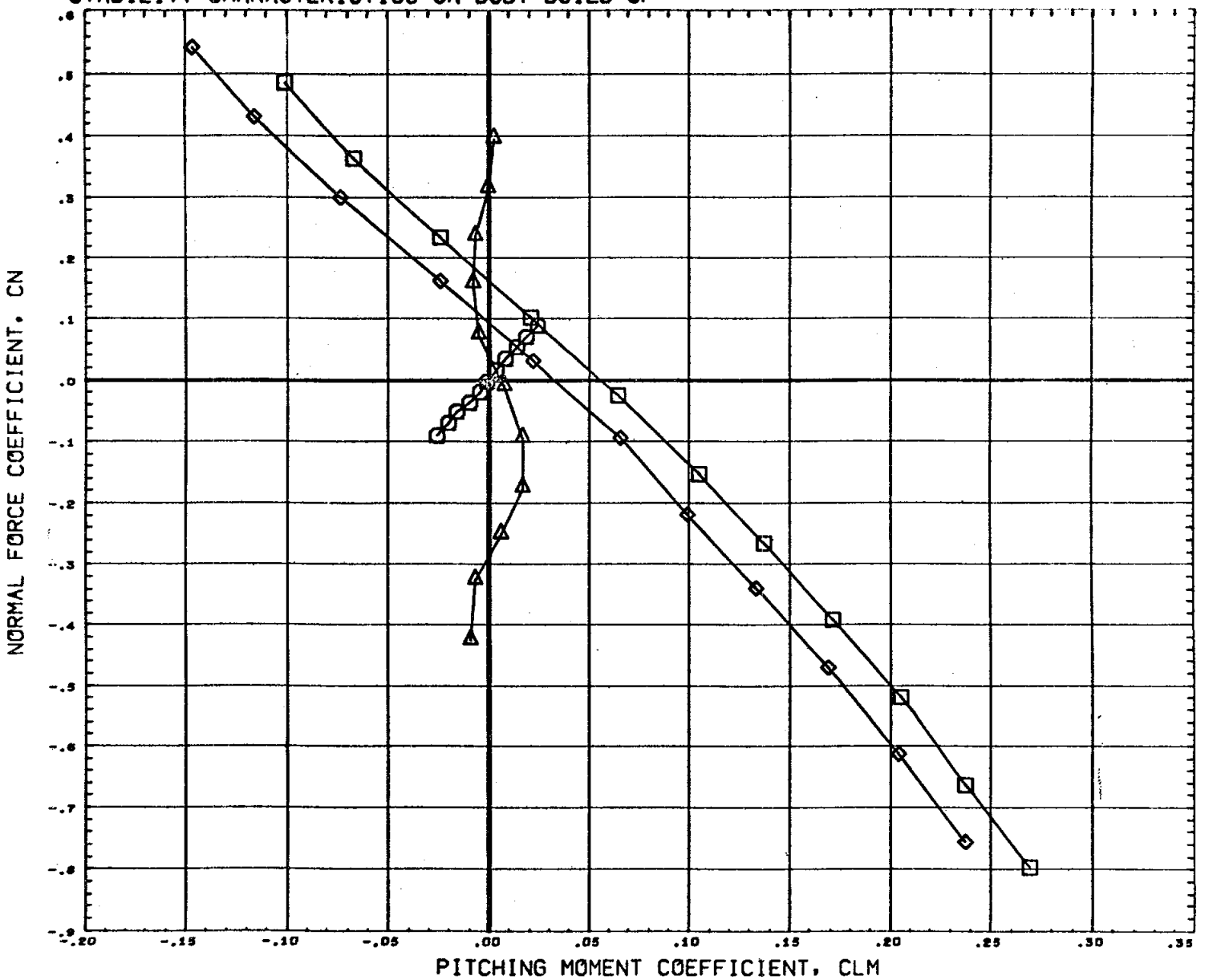


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP

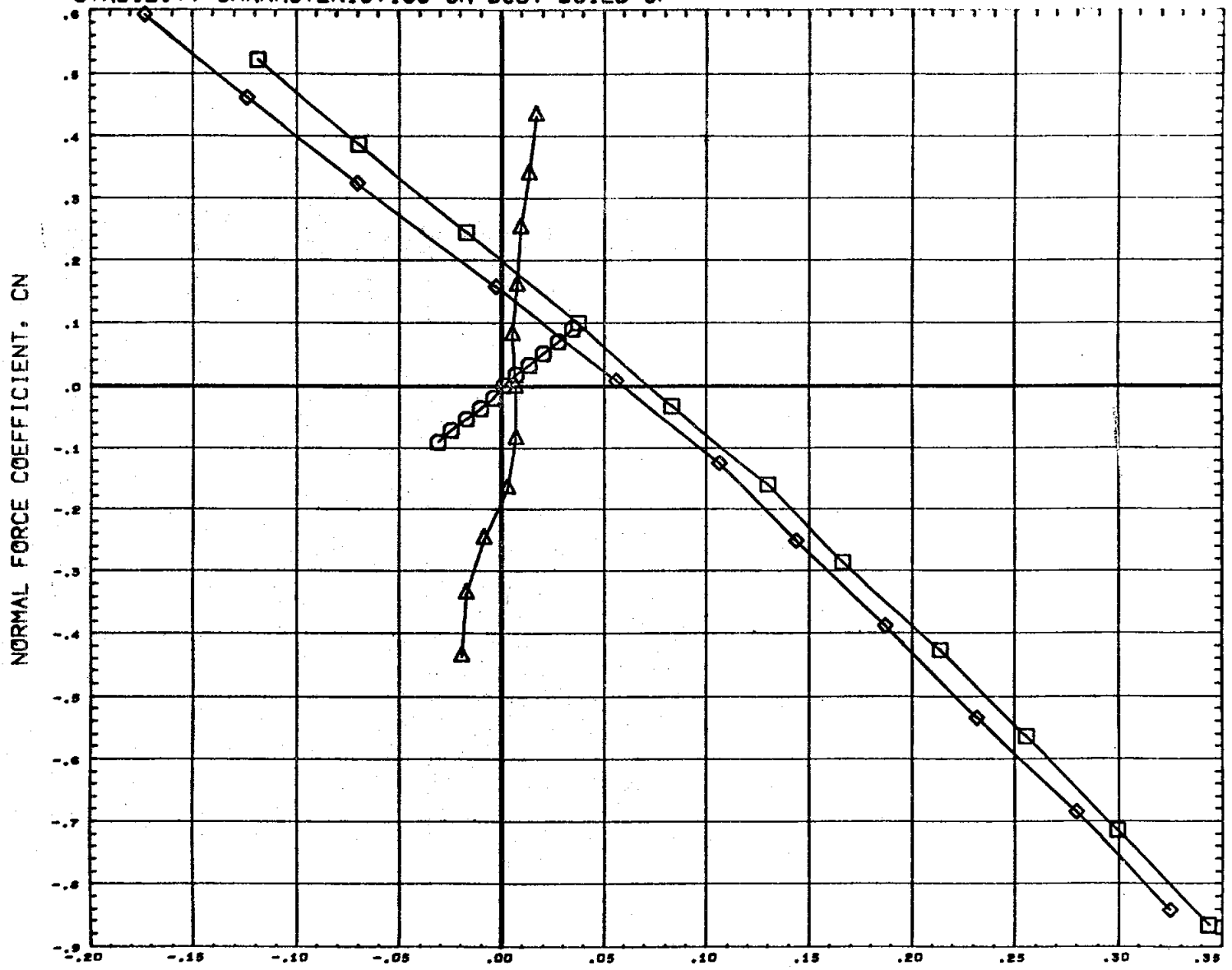


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP

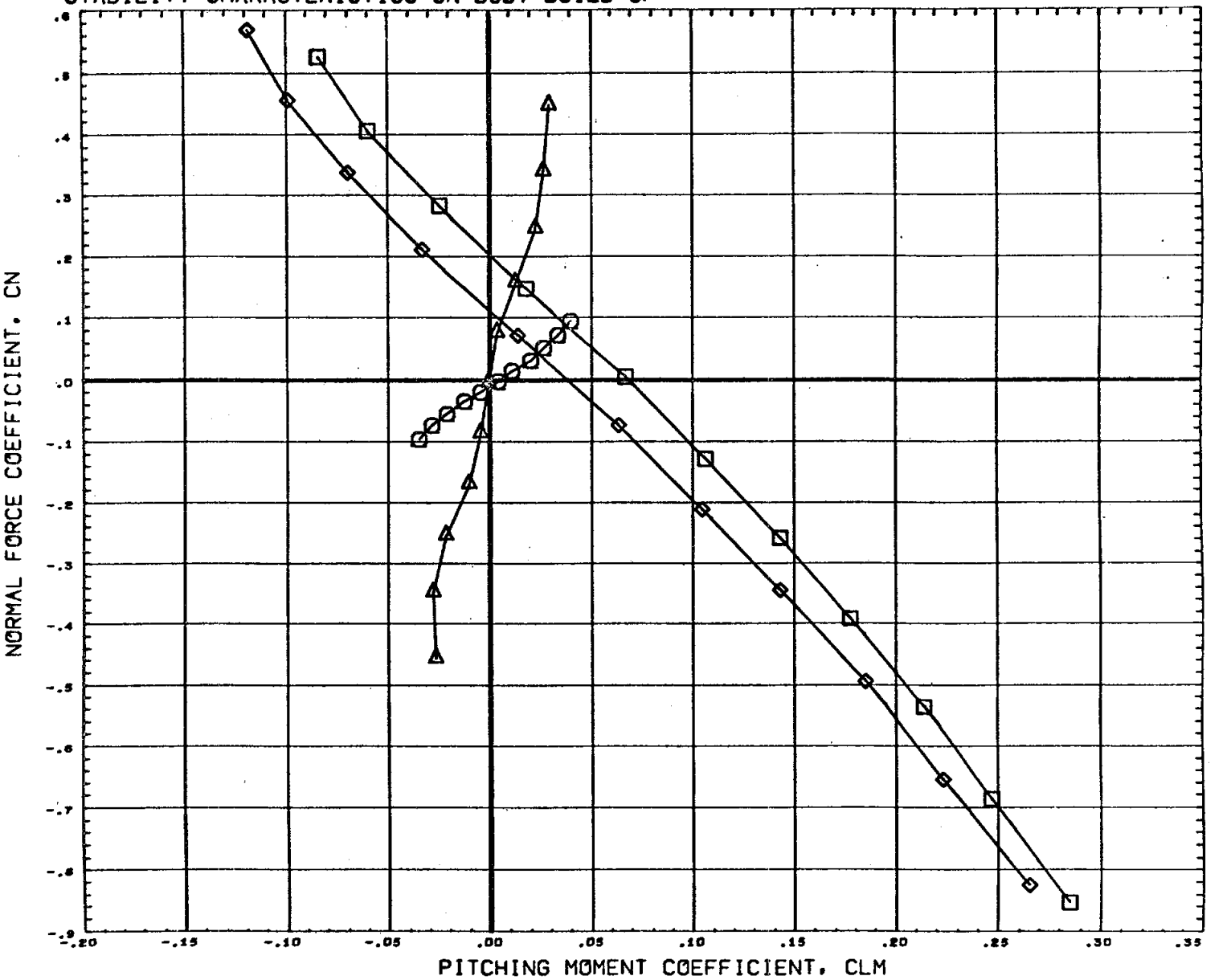


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

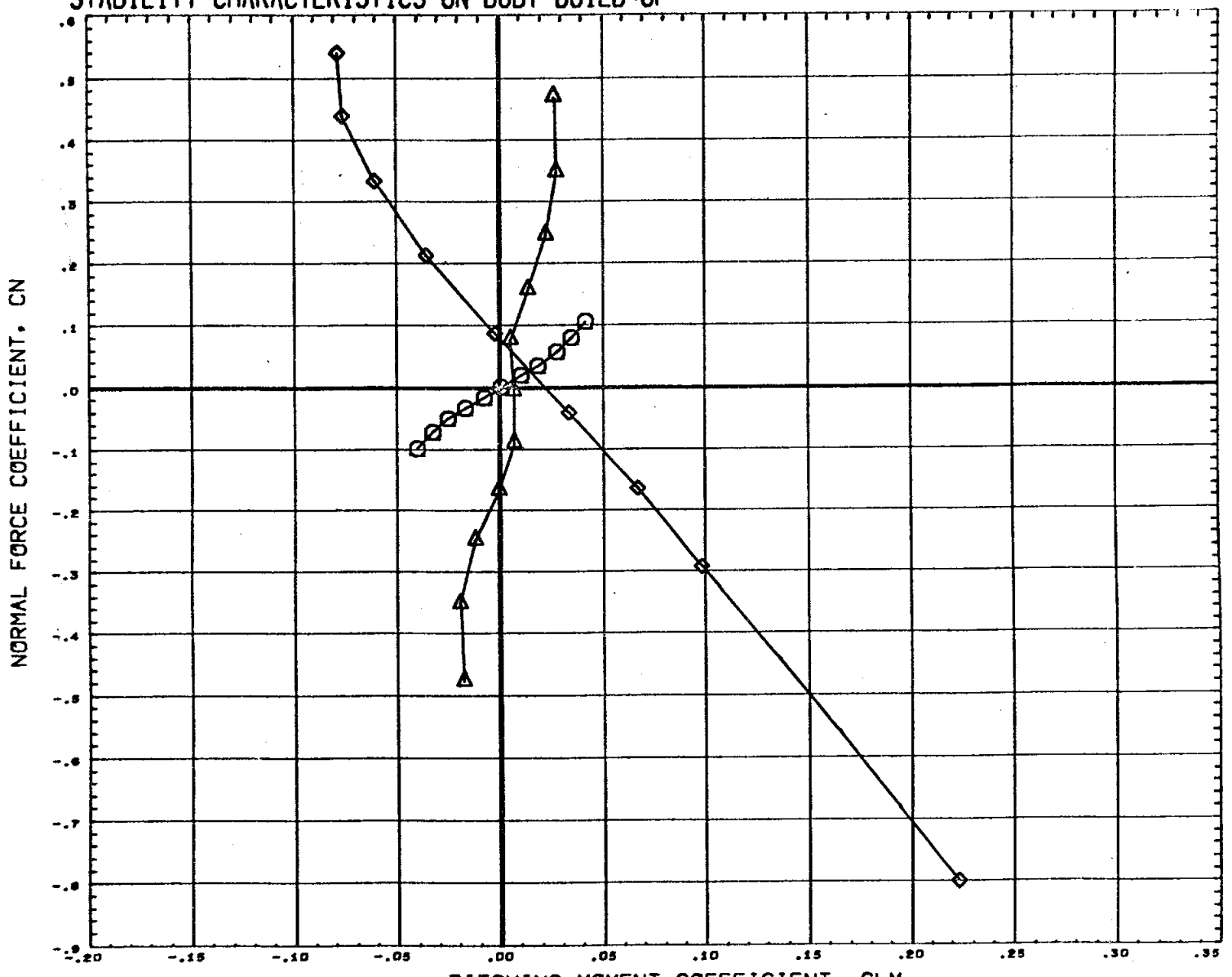


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)		M556(IA1) NAR ATP BL LV (T3)				
(G77002)		M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(G77006)		M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(G77008)		M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

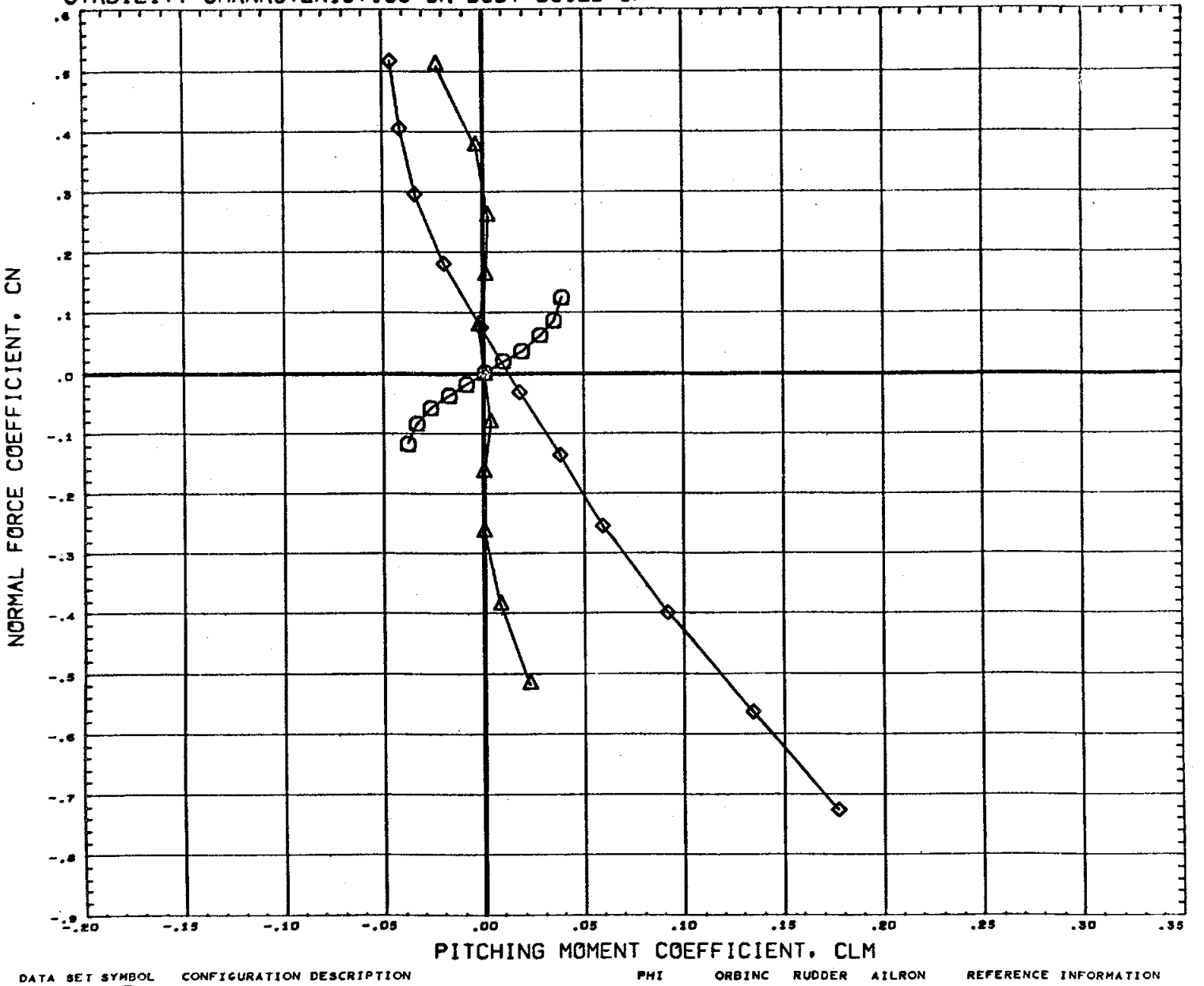


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP

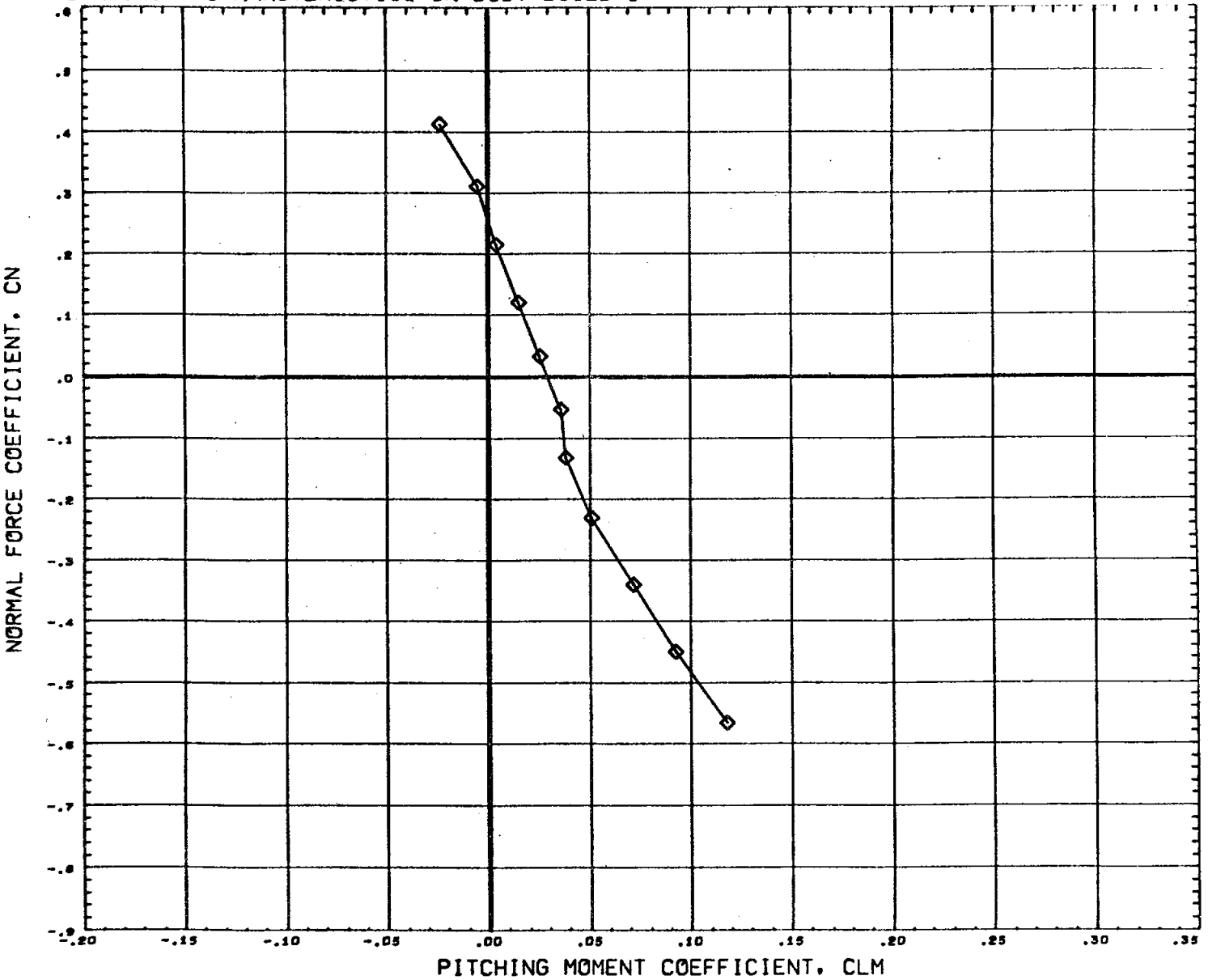


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

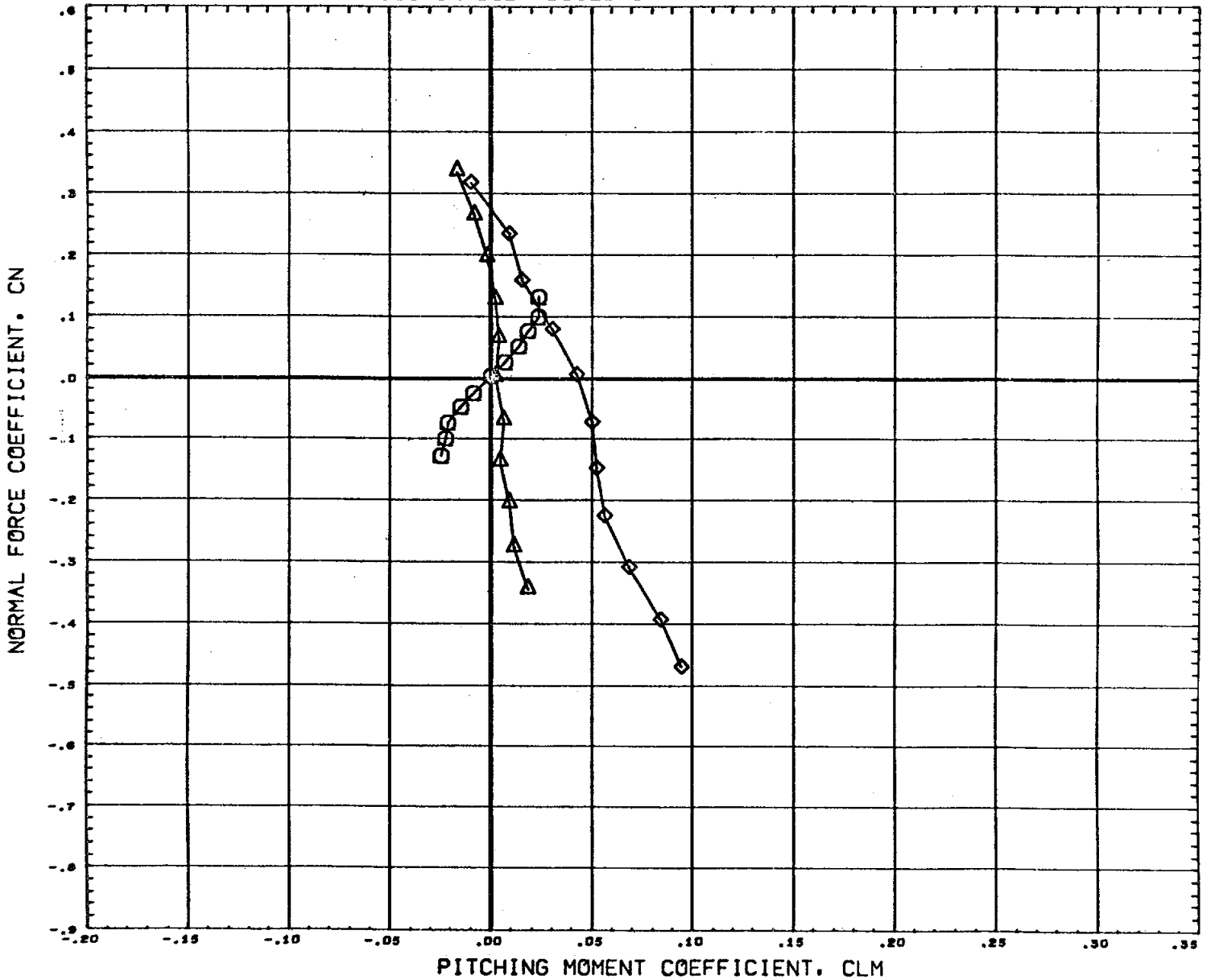


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP

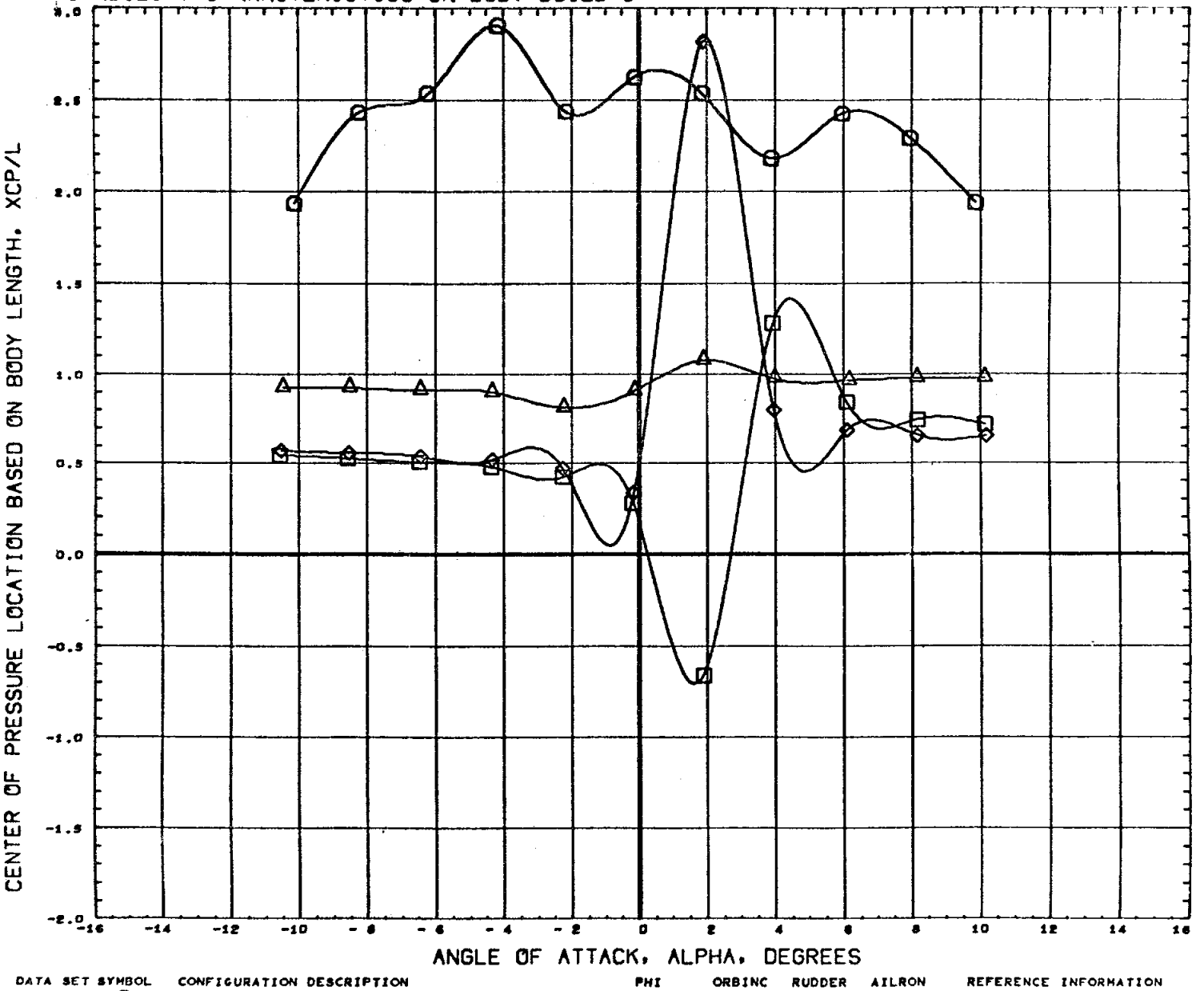


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

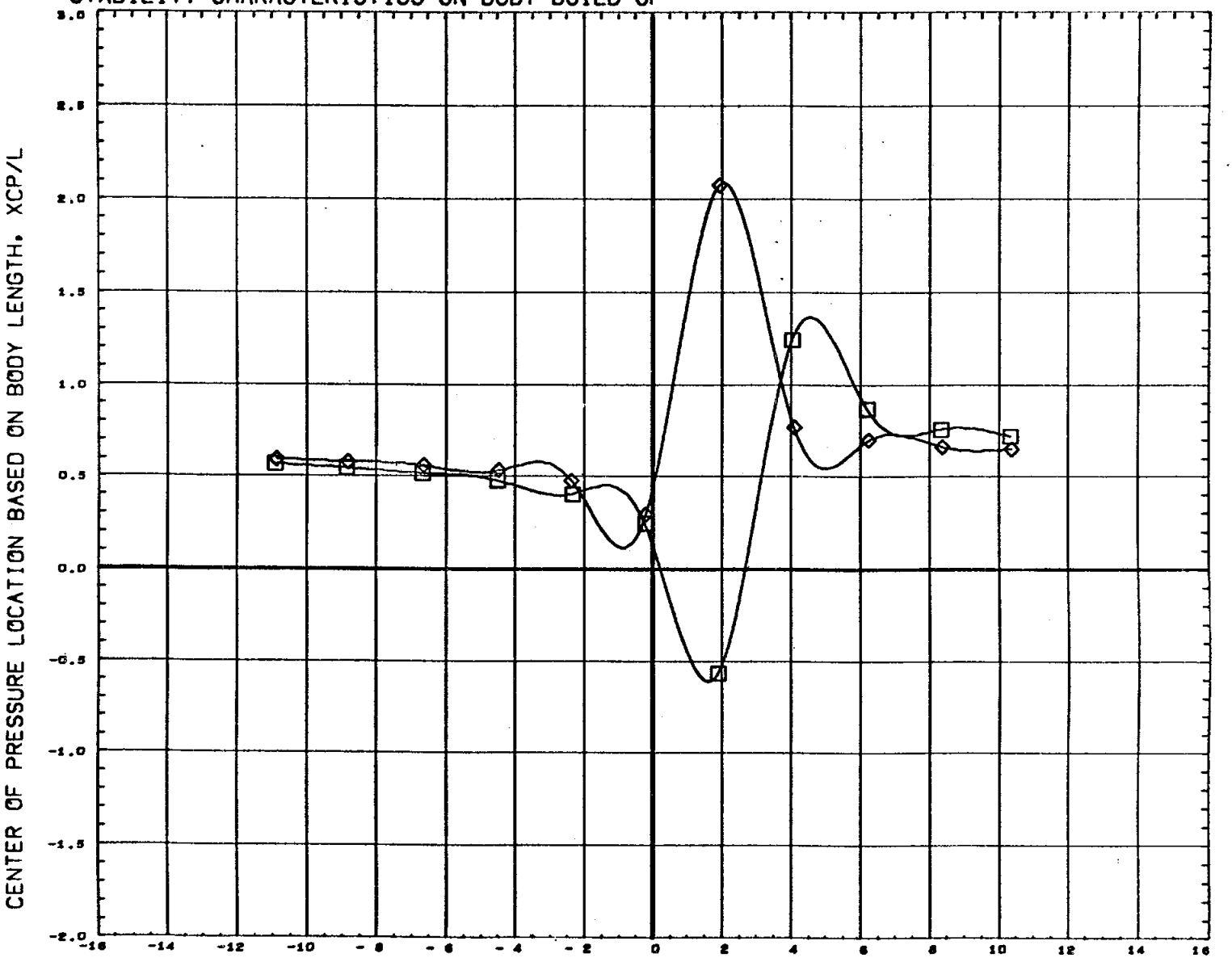


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

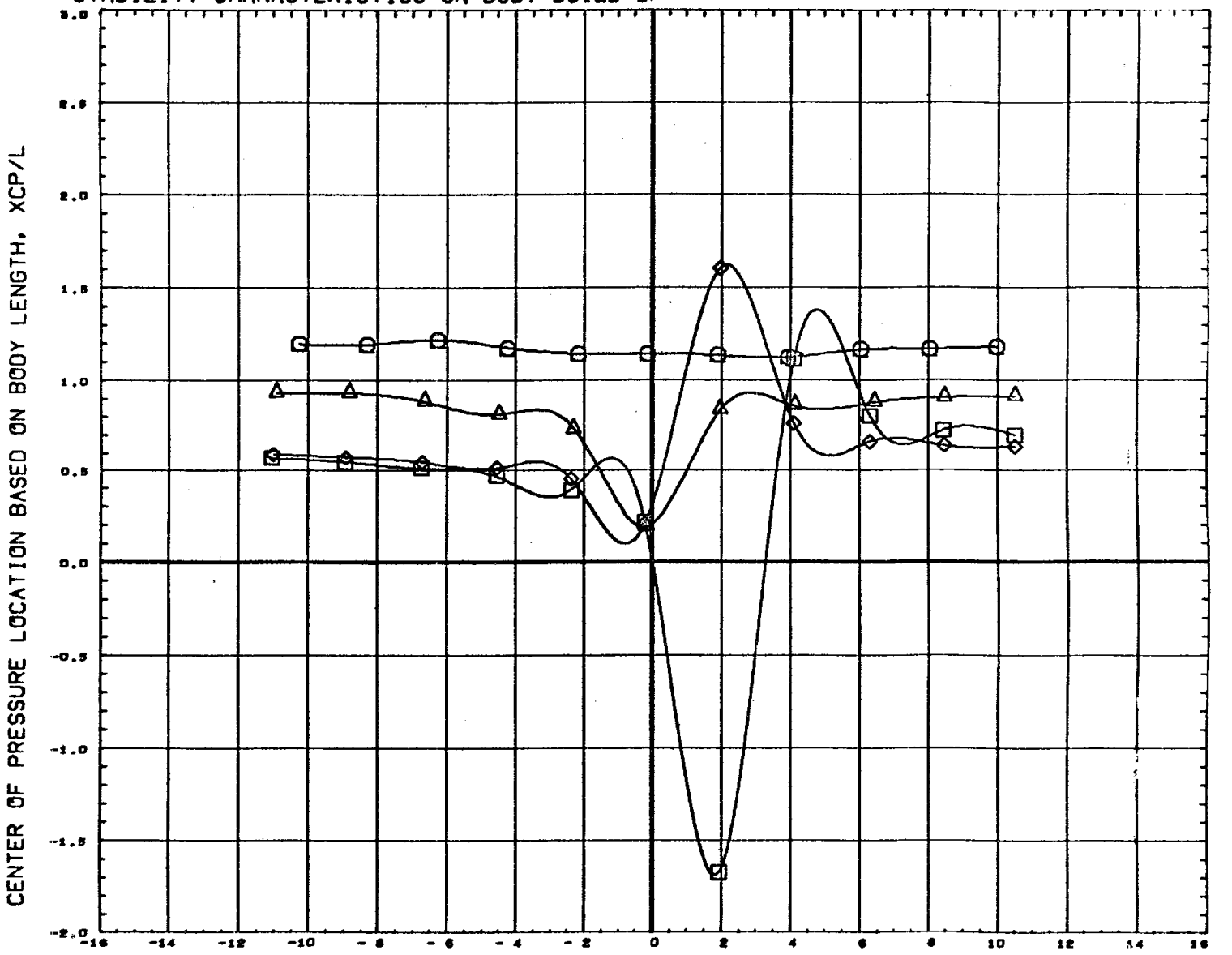


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)		DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)		M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)		M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP

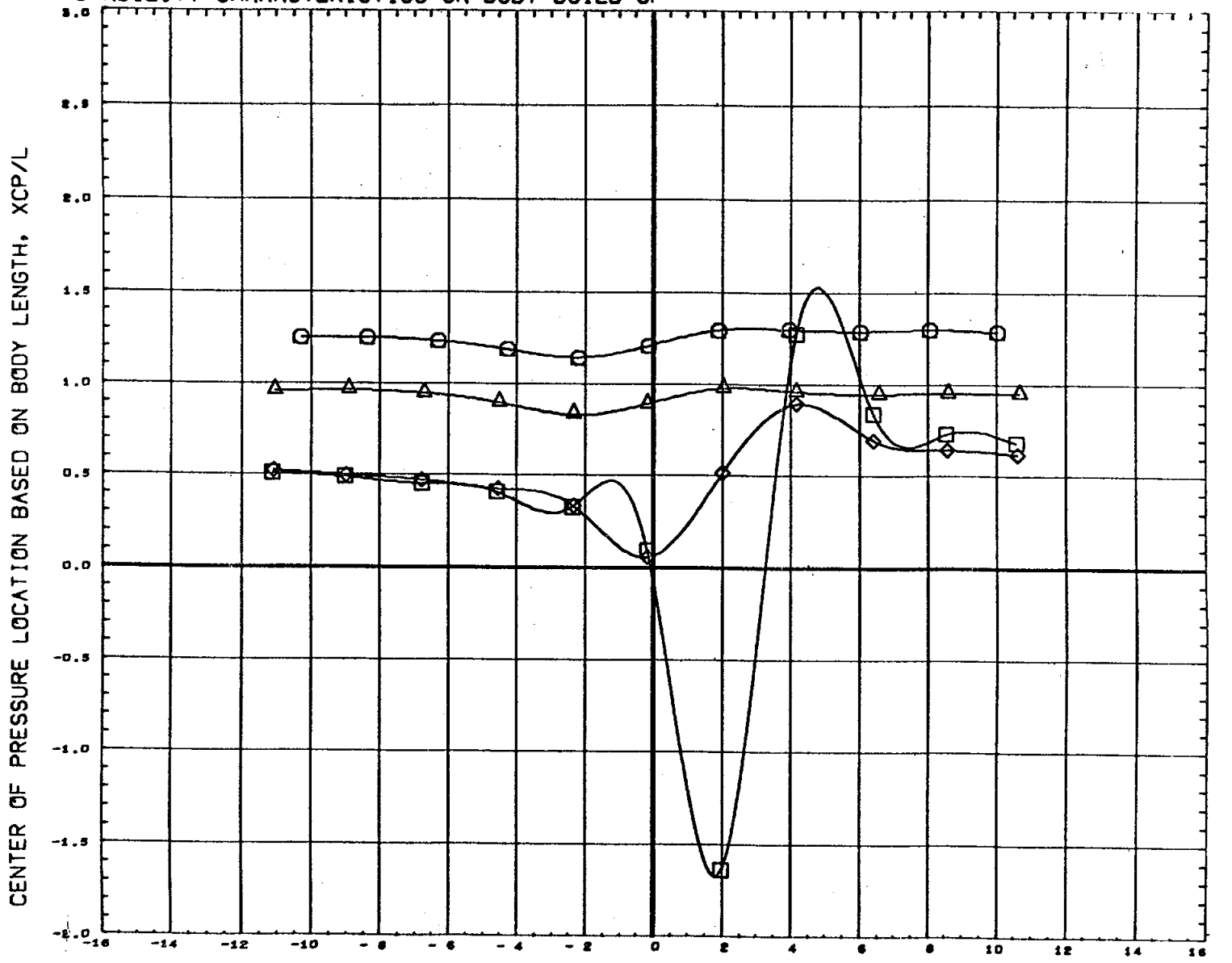


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(677006)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP



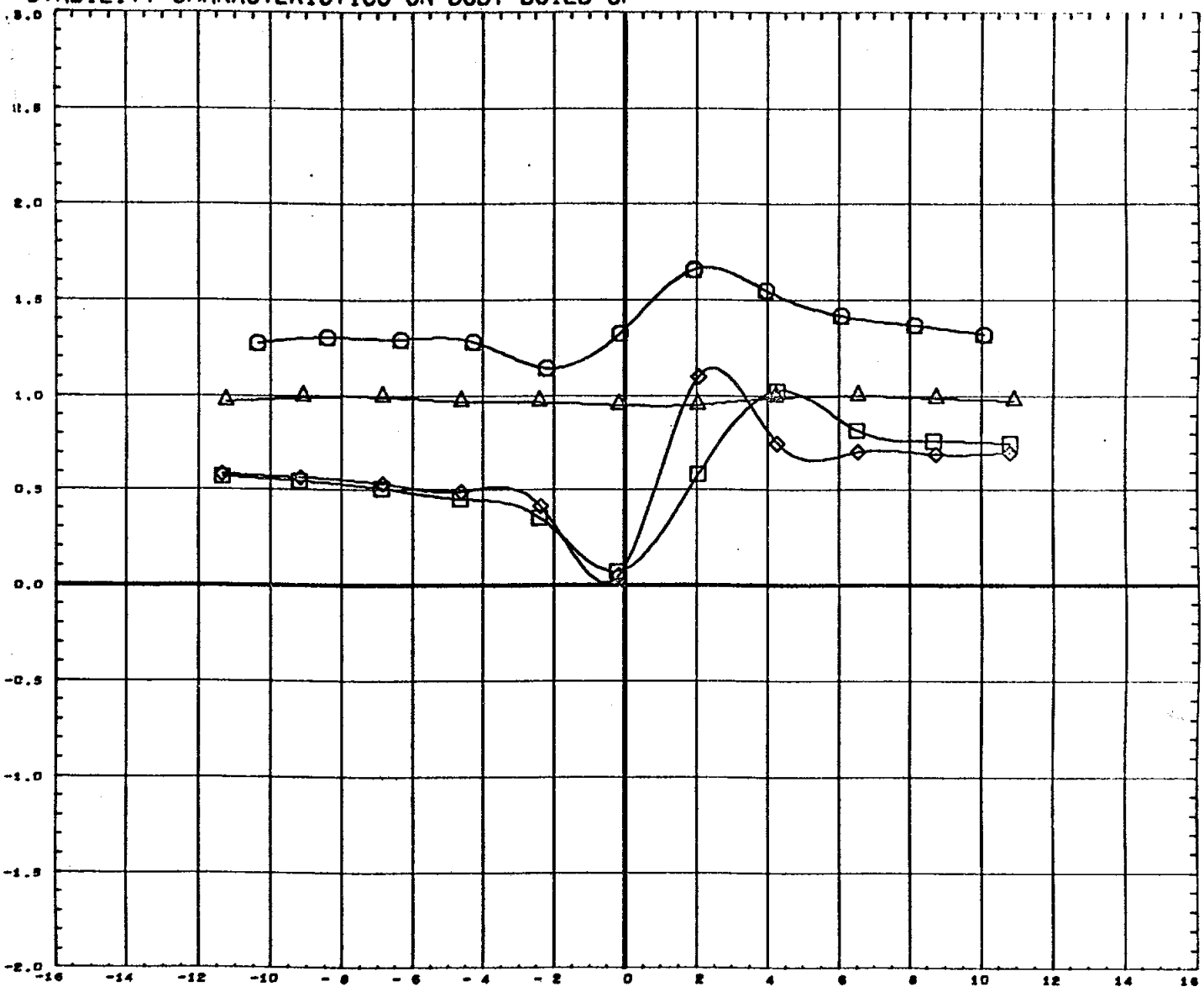
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

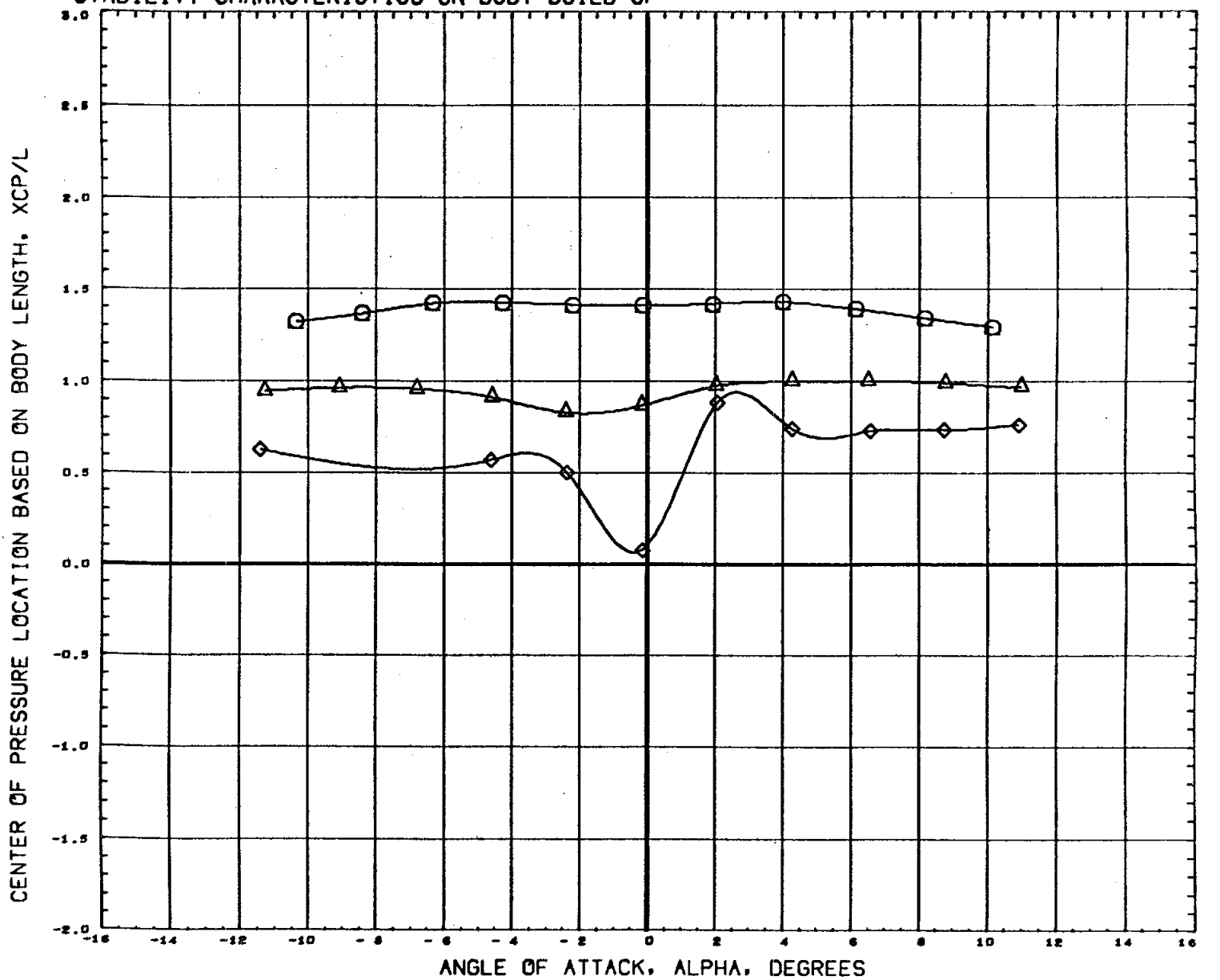


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

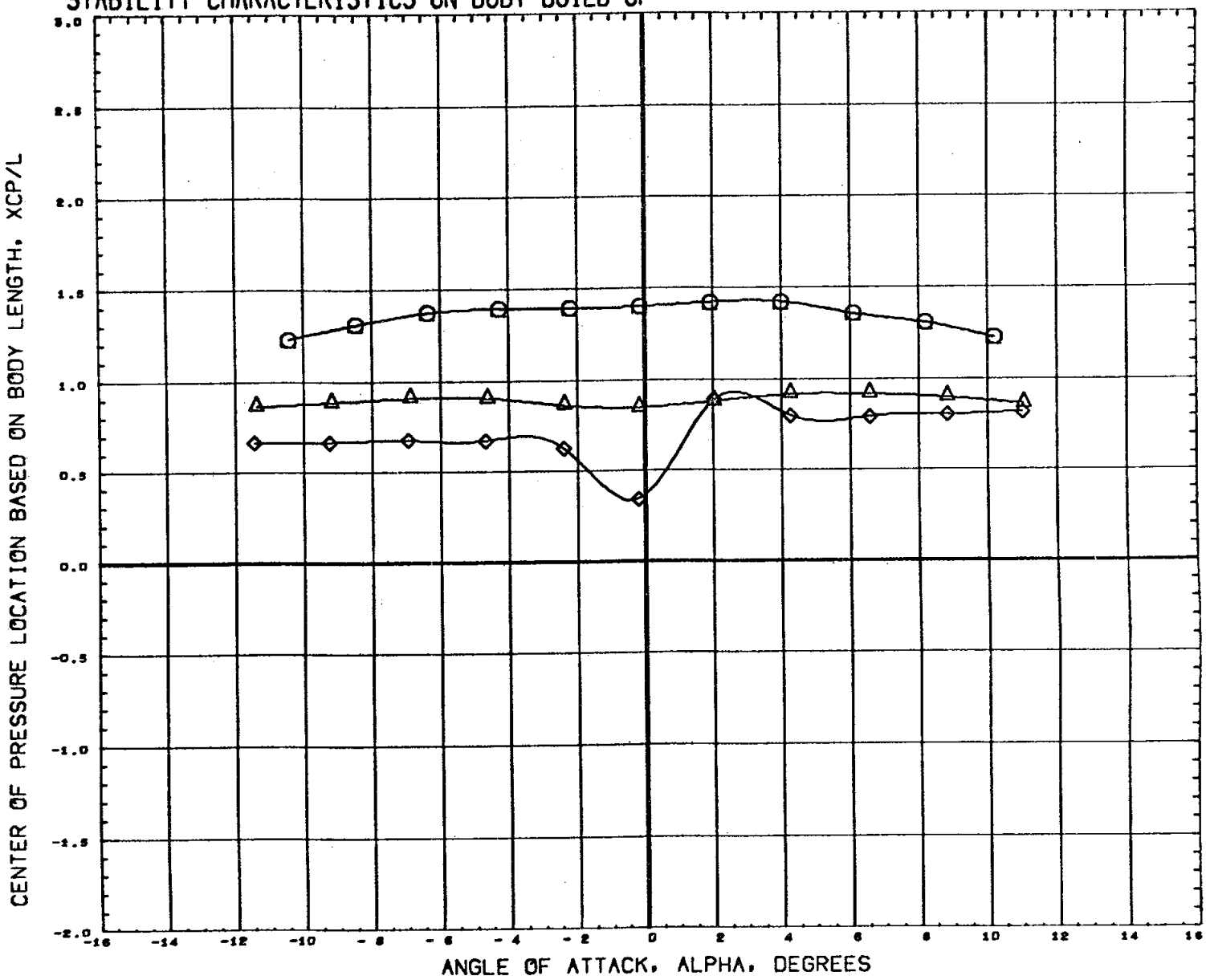


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP



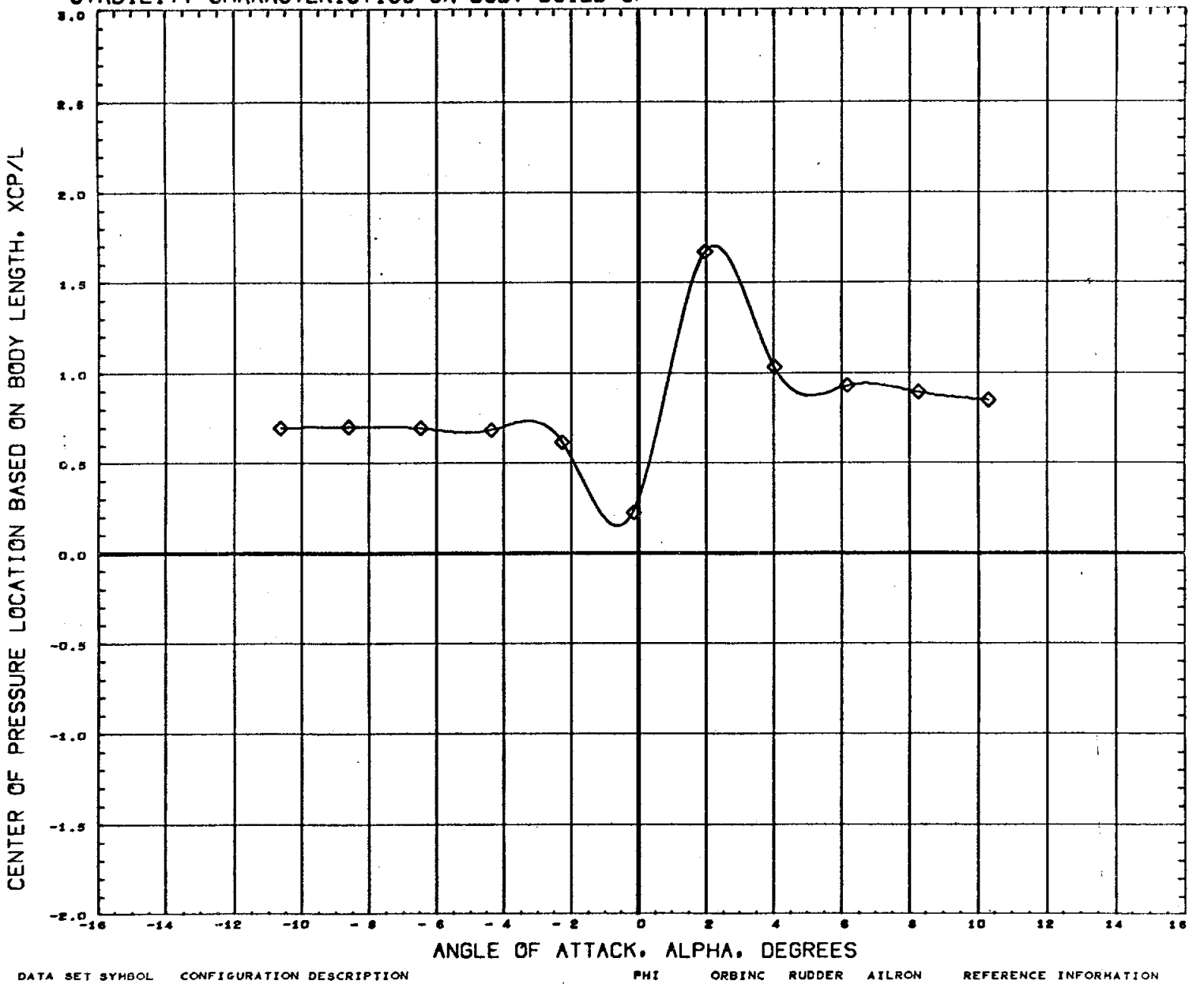
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677001)	○	M556(IA1) NAR ATP BL LV (T3)
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

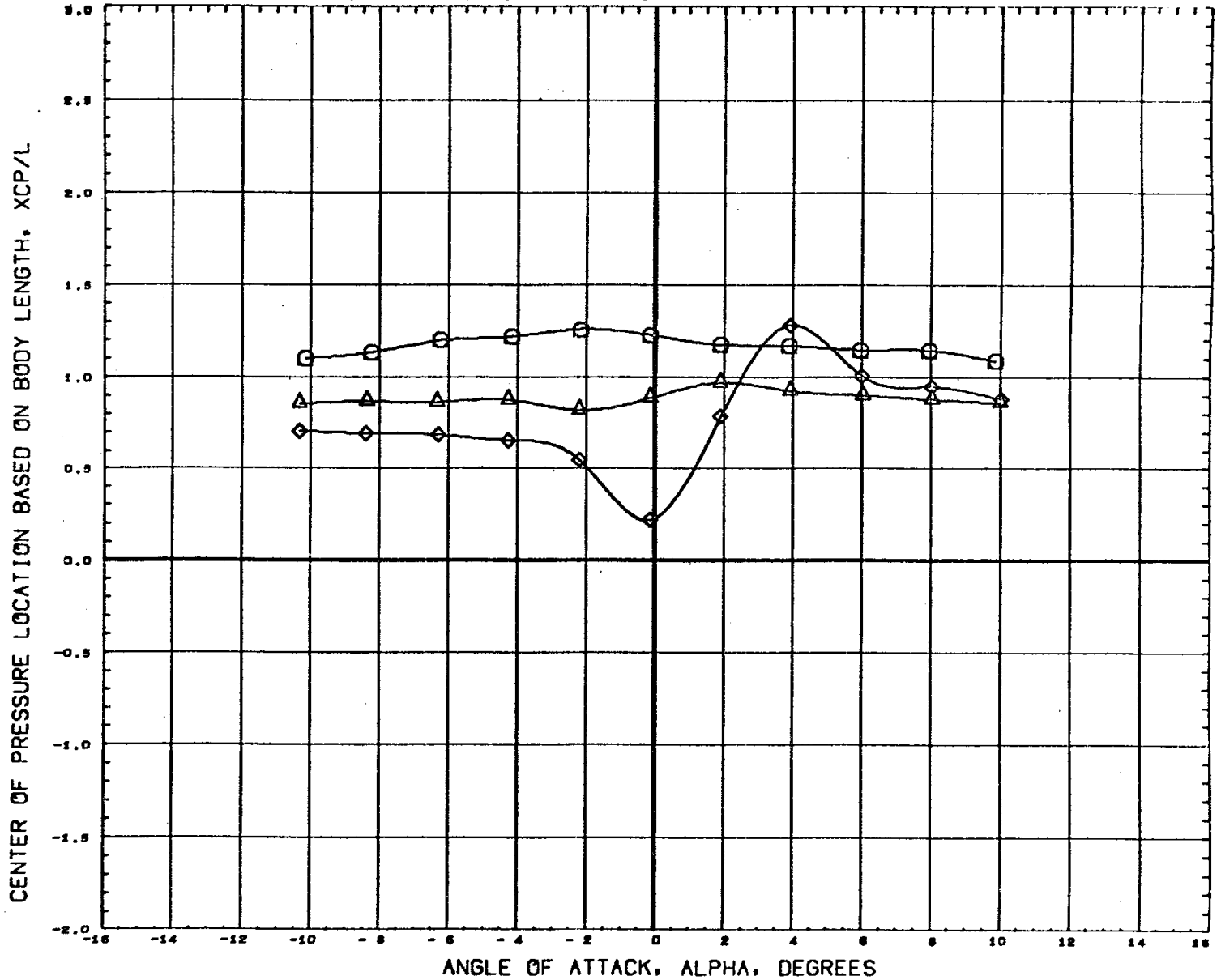


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(677002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(677008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP

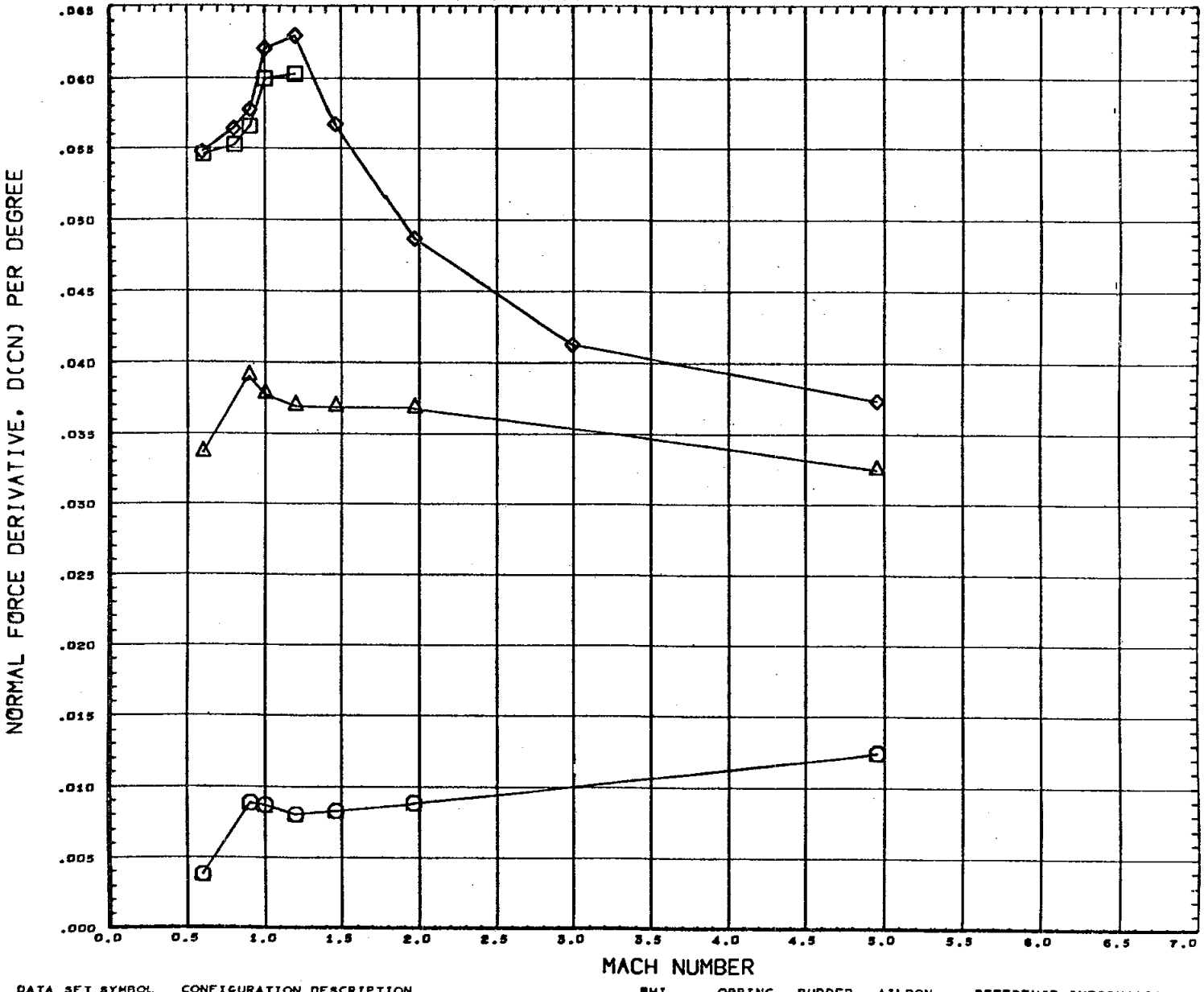


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

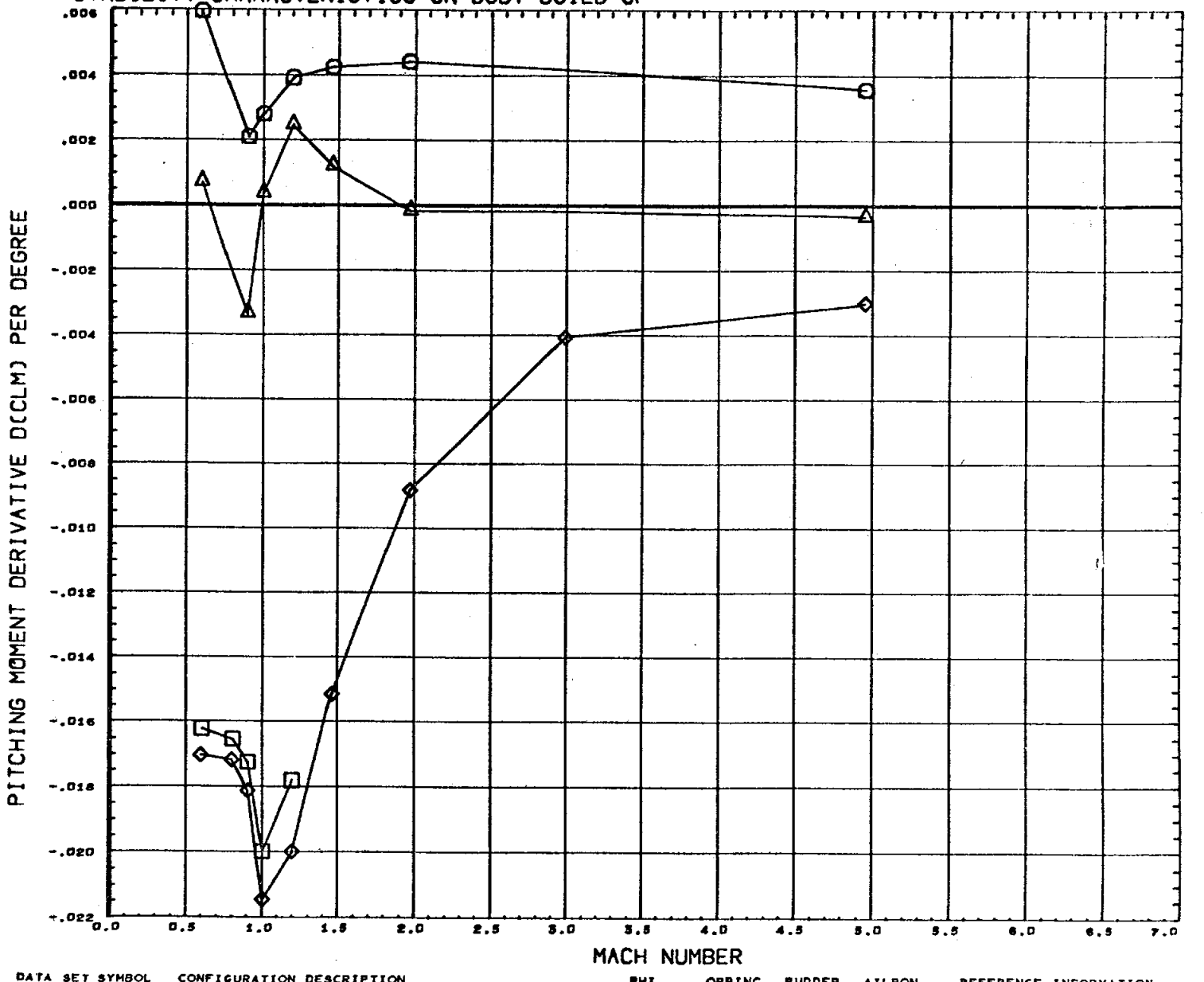
STABILITY CHARACTERISTICS ON BODY BUILD-UP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677001)	○	M556(IA1) NAR ATP BL LV (T3)				
(677002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(677006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(677008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP

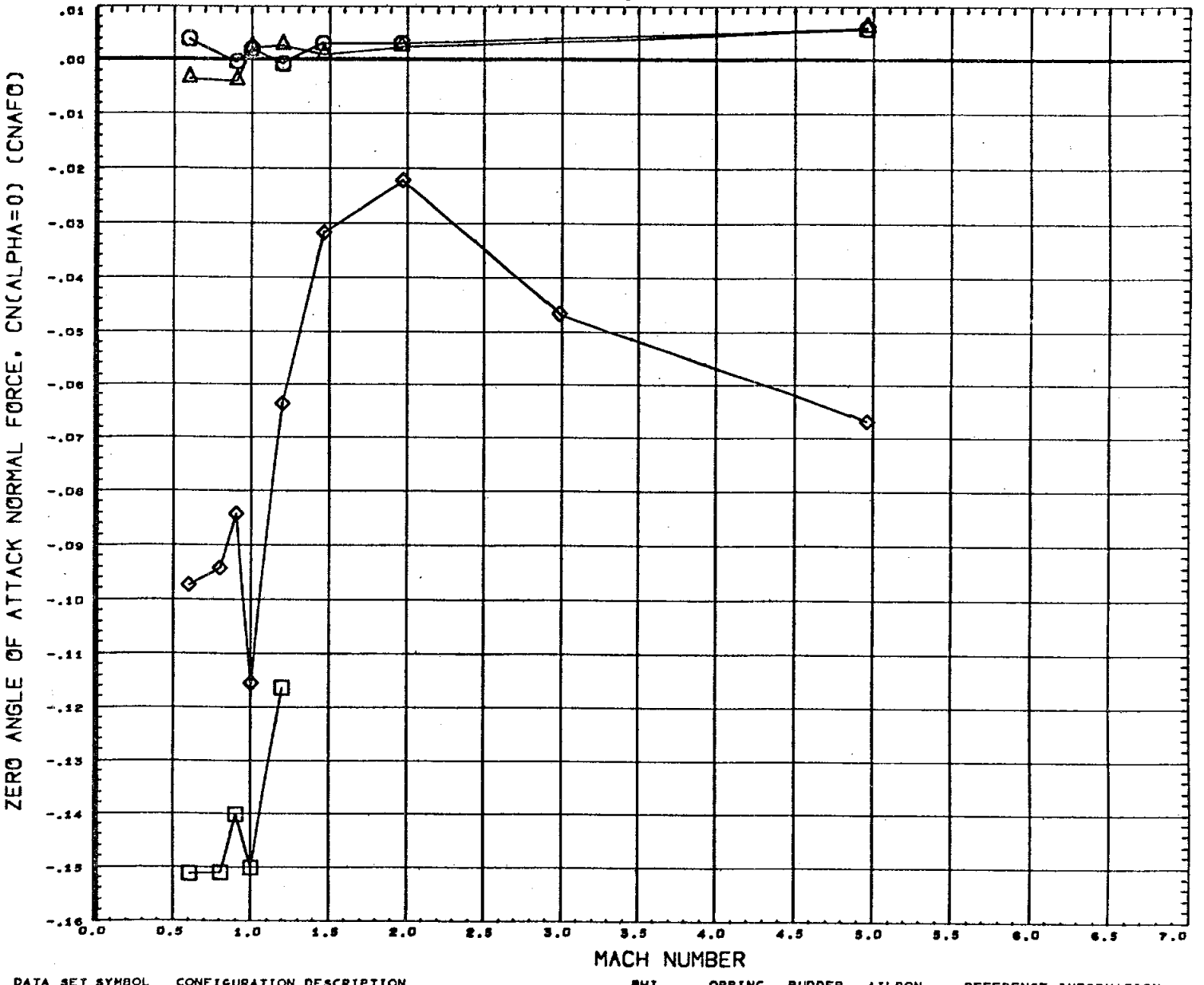


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)		M556(IA1) NAR ATP BL LV (T3)
(G77002)		M556(IA1) NAR ATP BL LV (T3)(S1)
(G77006)		M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(G77008)		M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

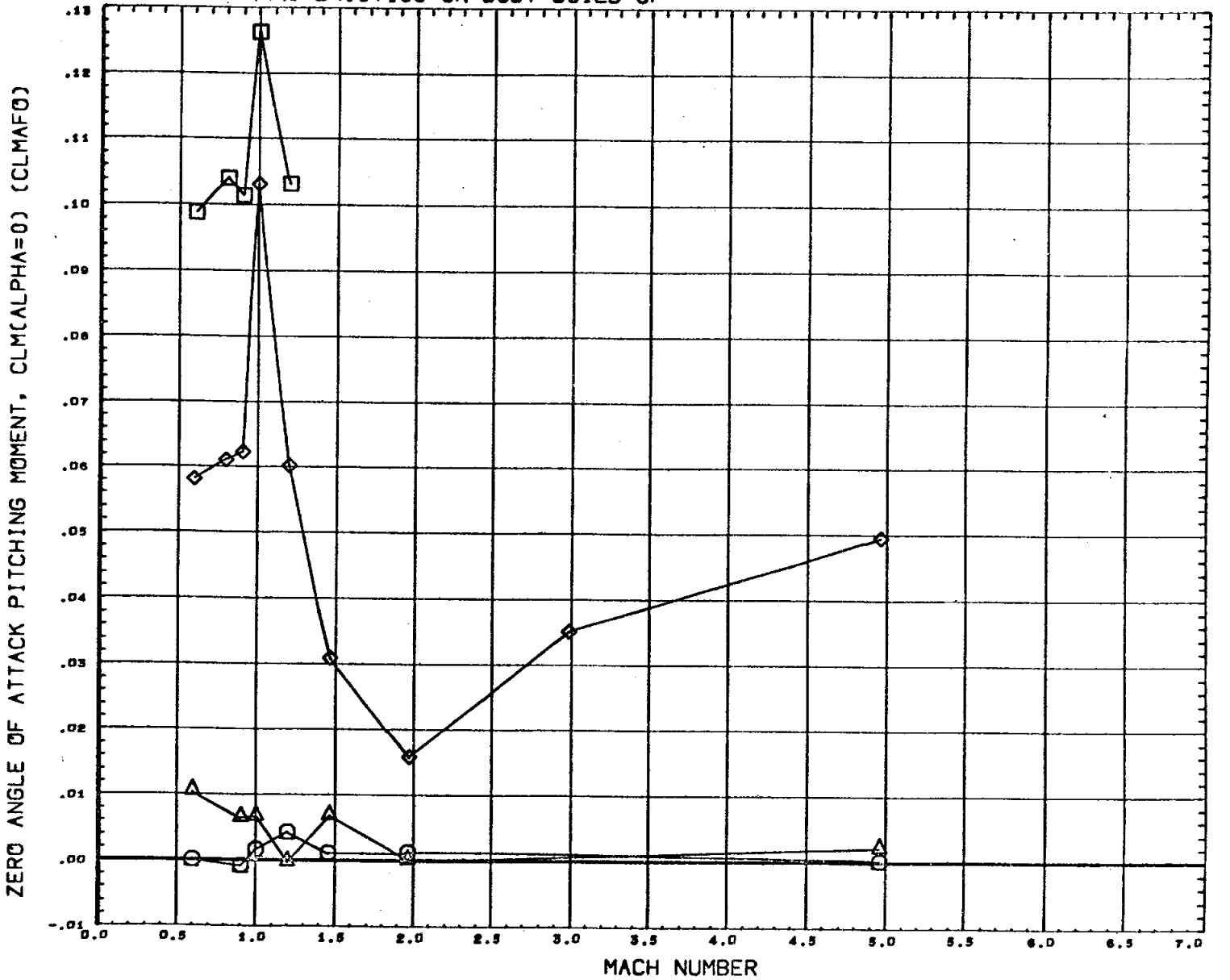
STABILITY CHARACTERISTICS ON BODY BUILD-UP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)				
(G77002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(G77008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP

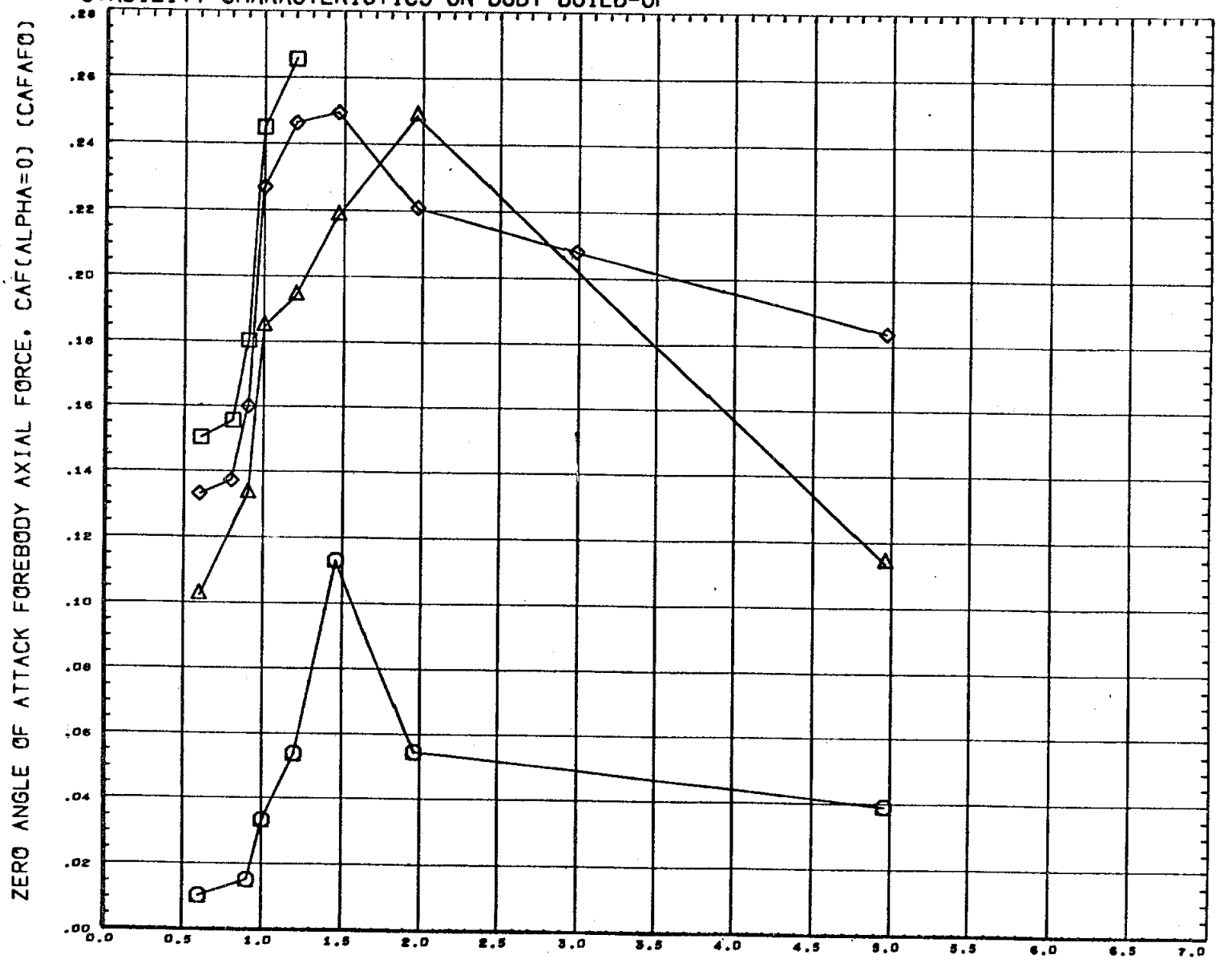


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677001)	○	M556(IA1) NAR ATP BL LV (T3)
(677002)	△	M556(IA1) NAR ATP BL LV (T3)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(677008)	□	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP

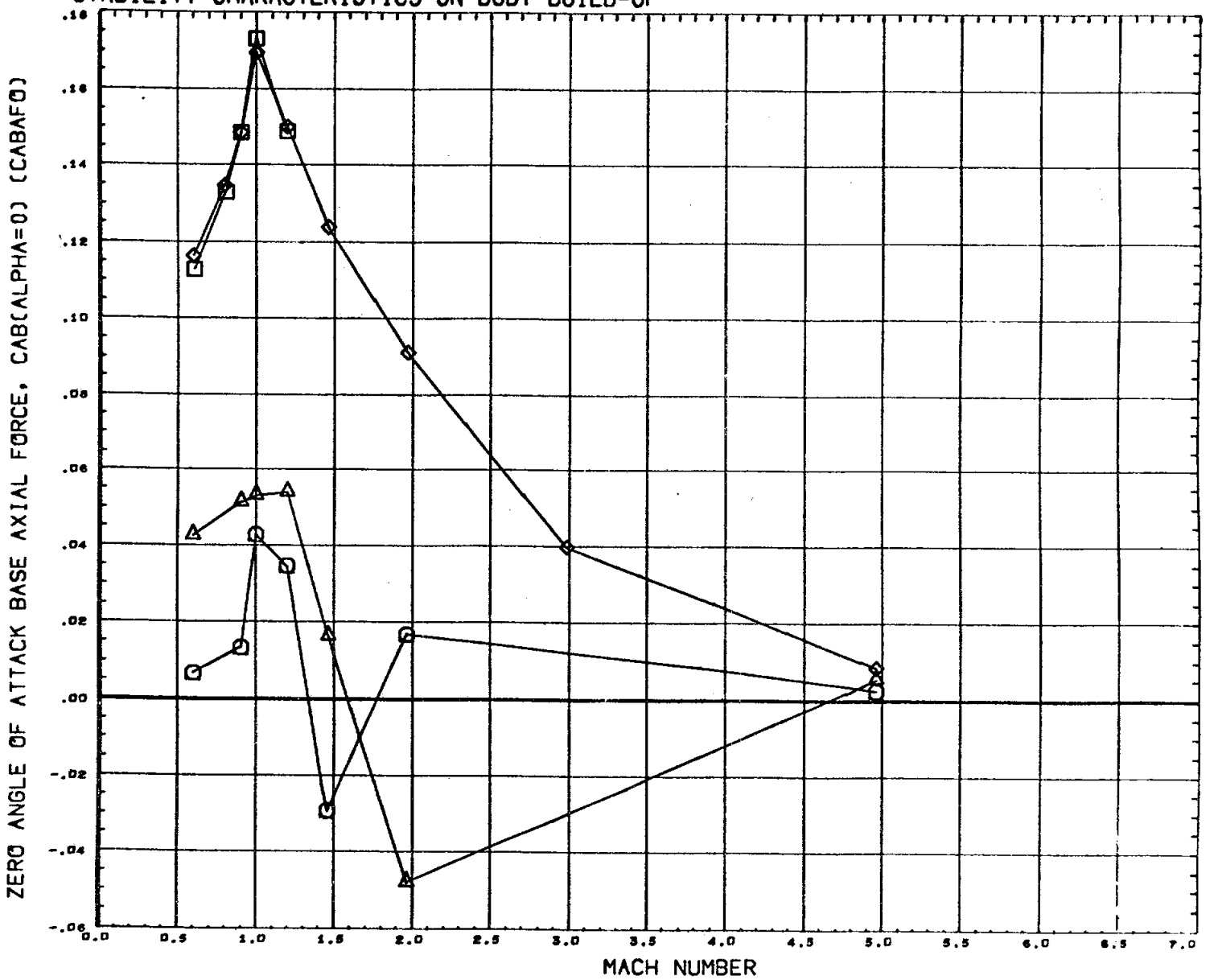


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77001)	○	M556(IA1) NAR ATP BL LV (T3)
(G77002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)
(G77008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP

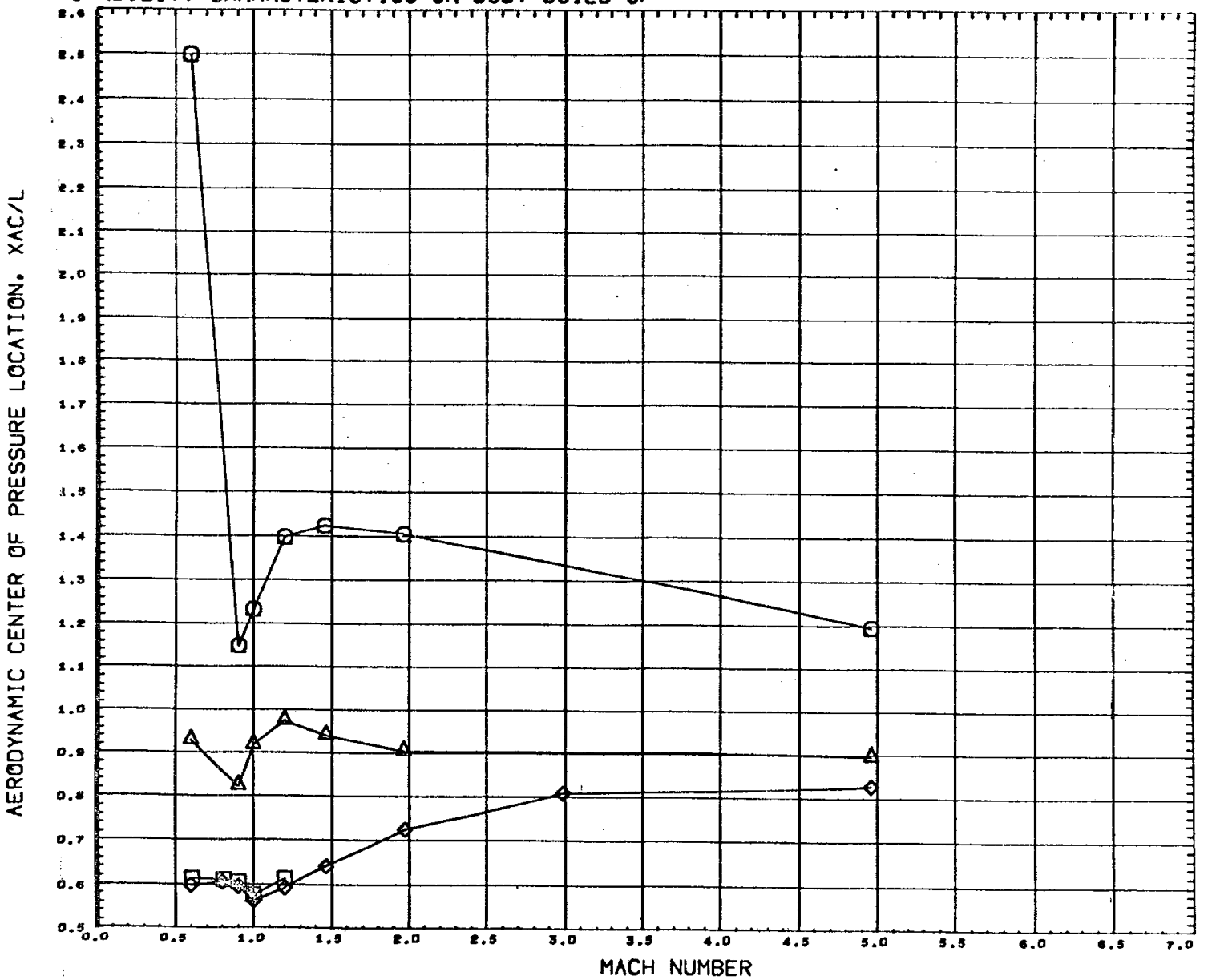


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677001)	○	M556(IA1) NAR ATP BL LV (T3)
(677002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)
(677008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP



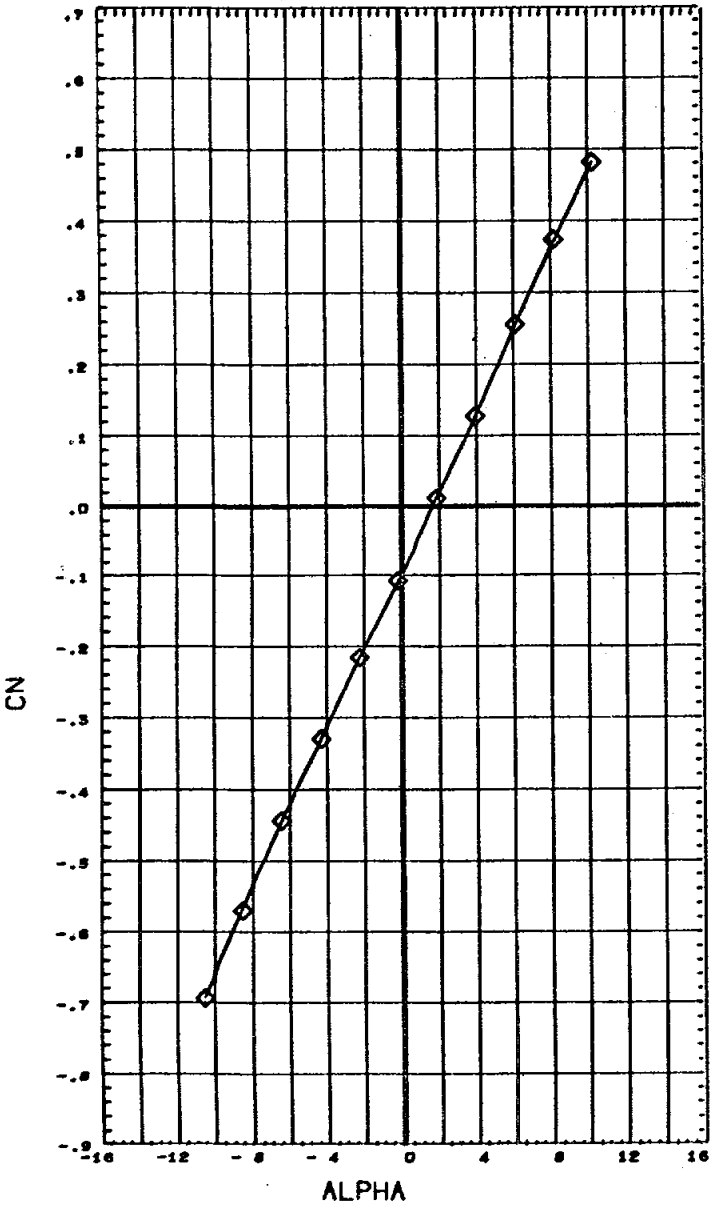
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677001)	○	M556(IA1) NAR ATP BL LV (T3)
(677002)	△	M556(IA1) NAR ATP BL LV (T3) (S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)
(677008)	□	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

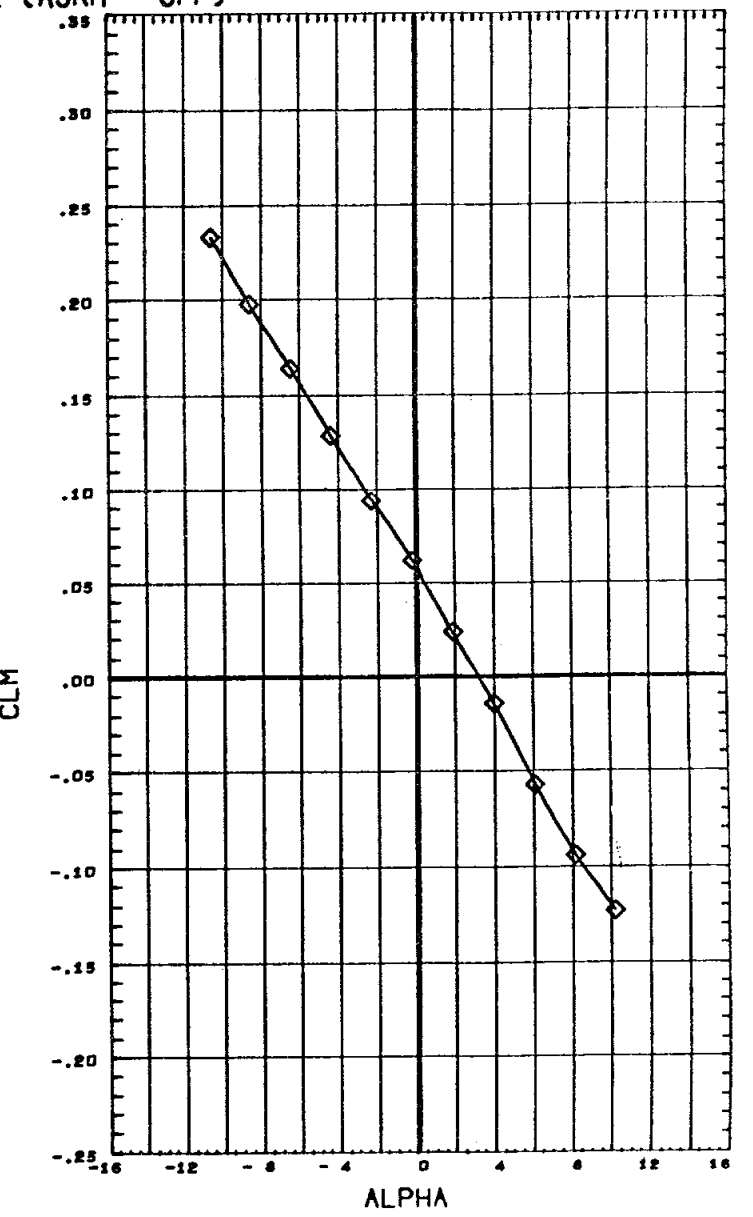
PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





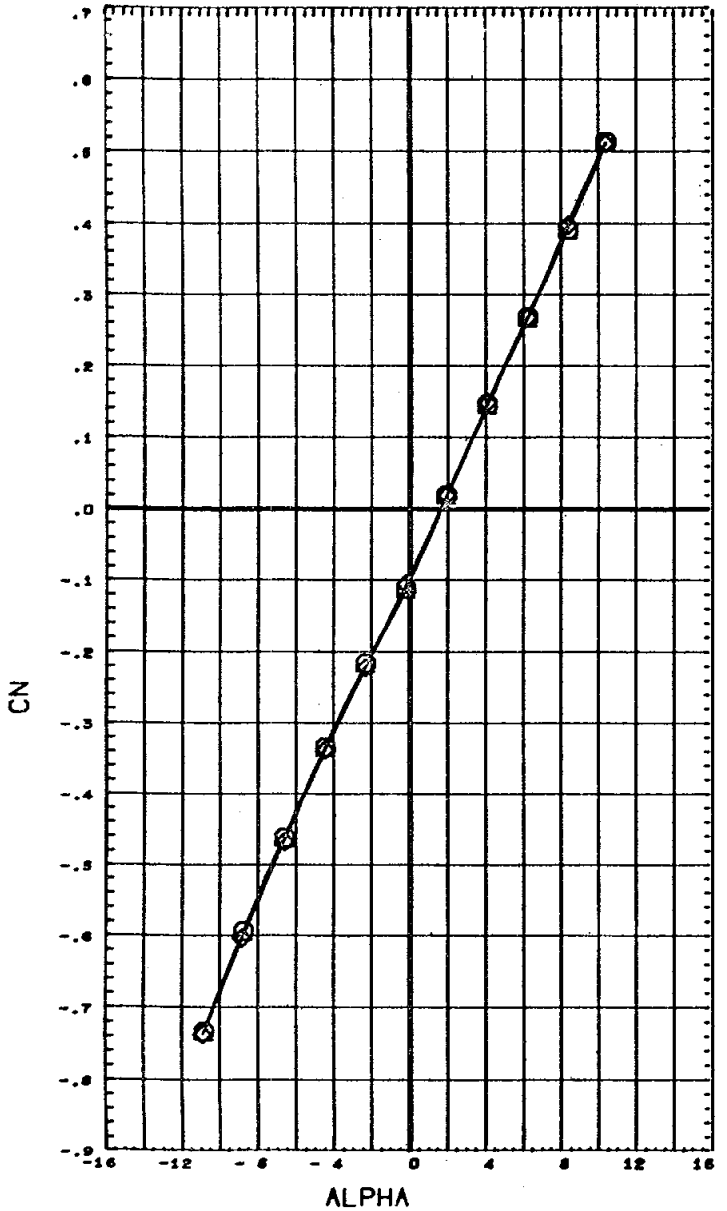
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(G77010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

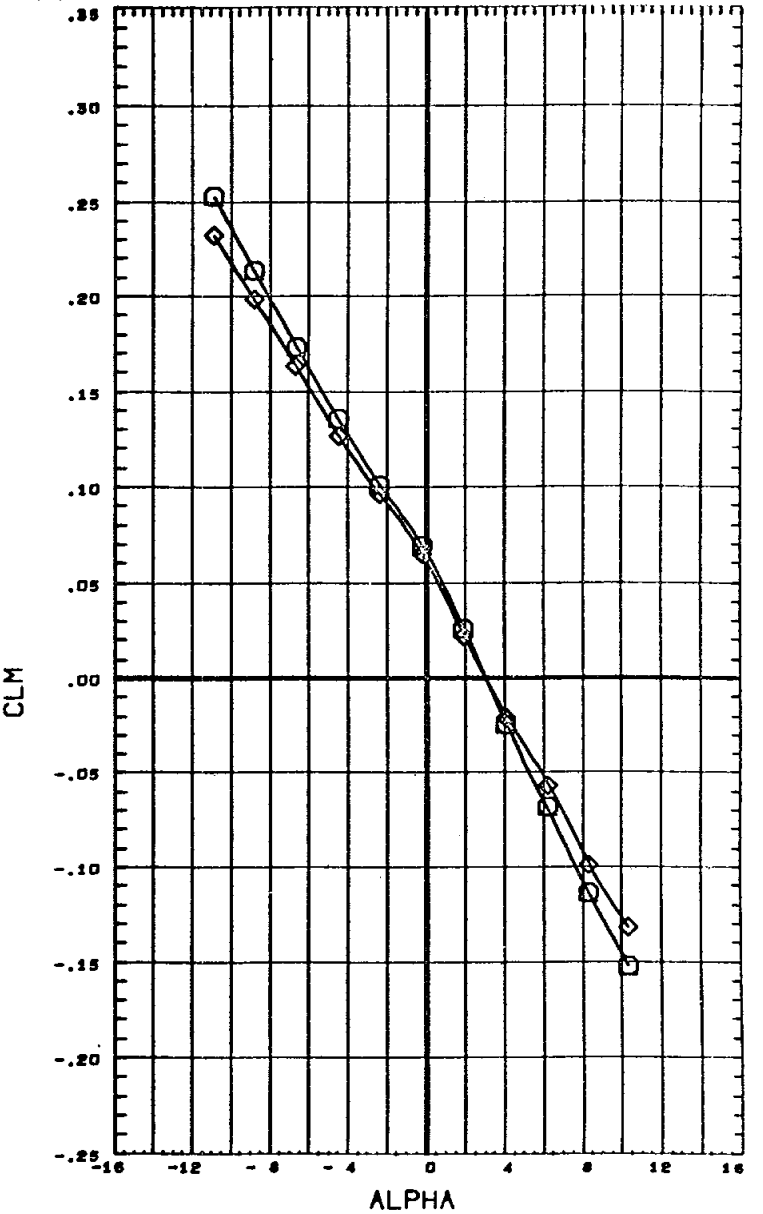
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





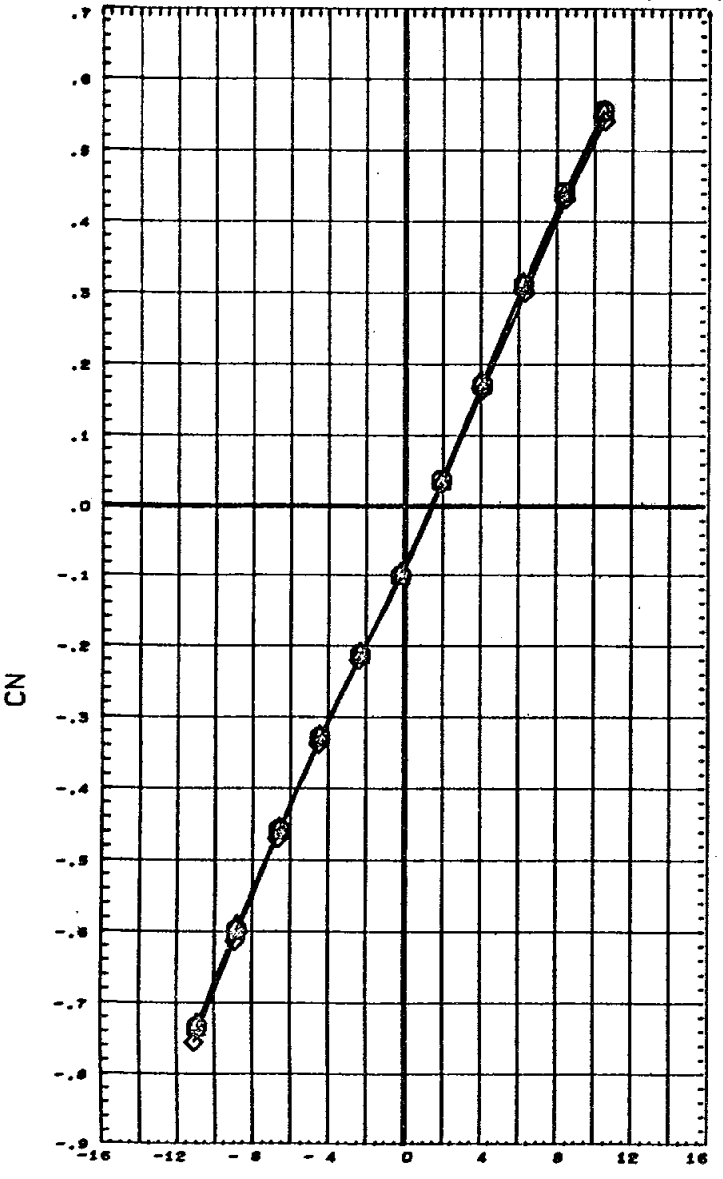
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(G77010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

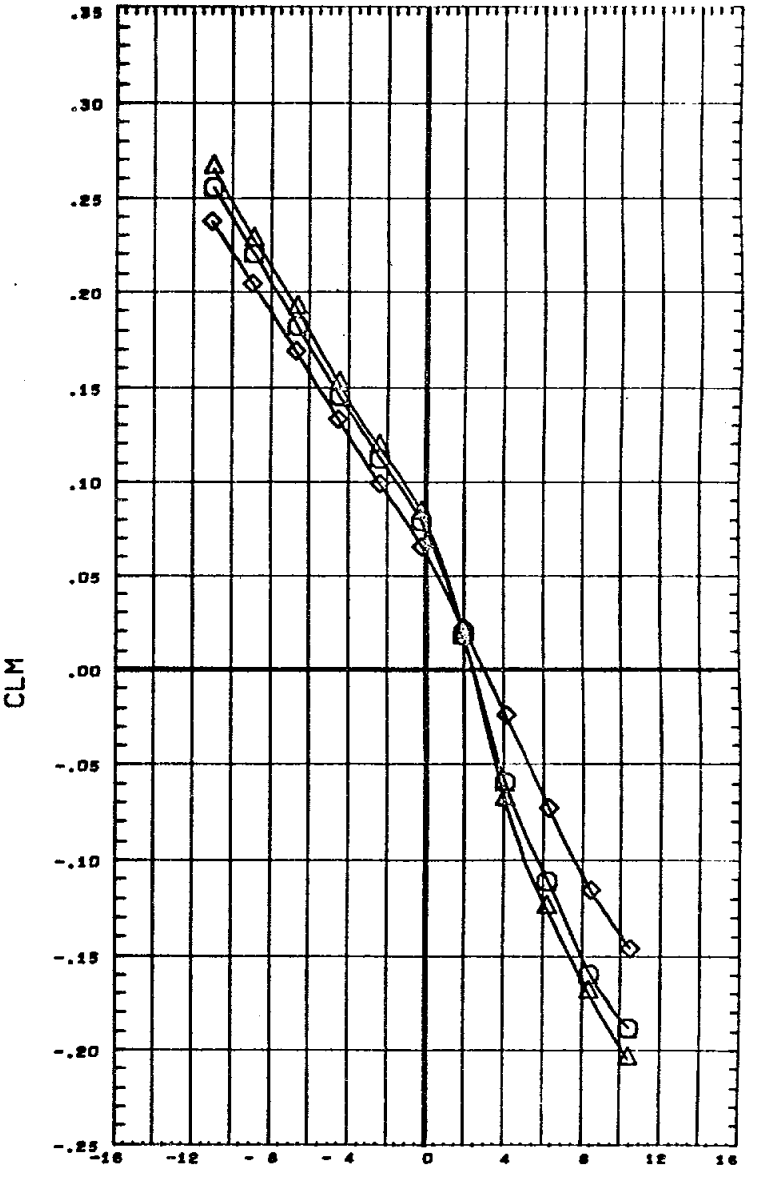
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





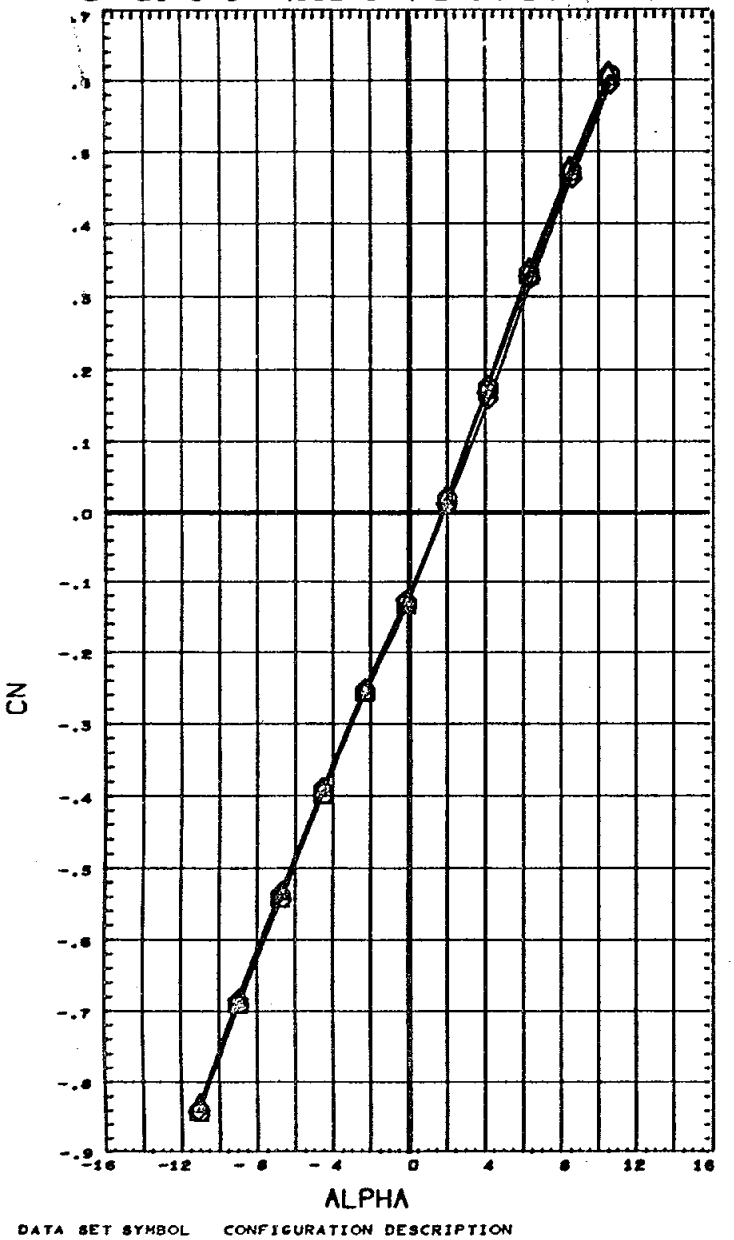
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

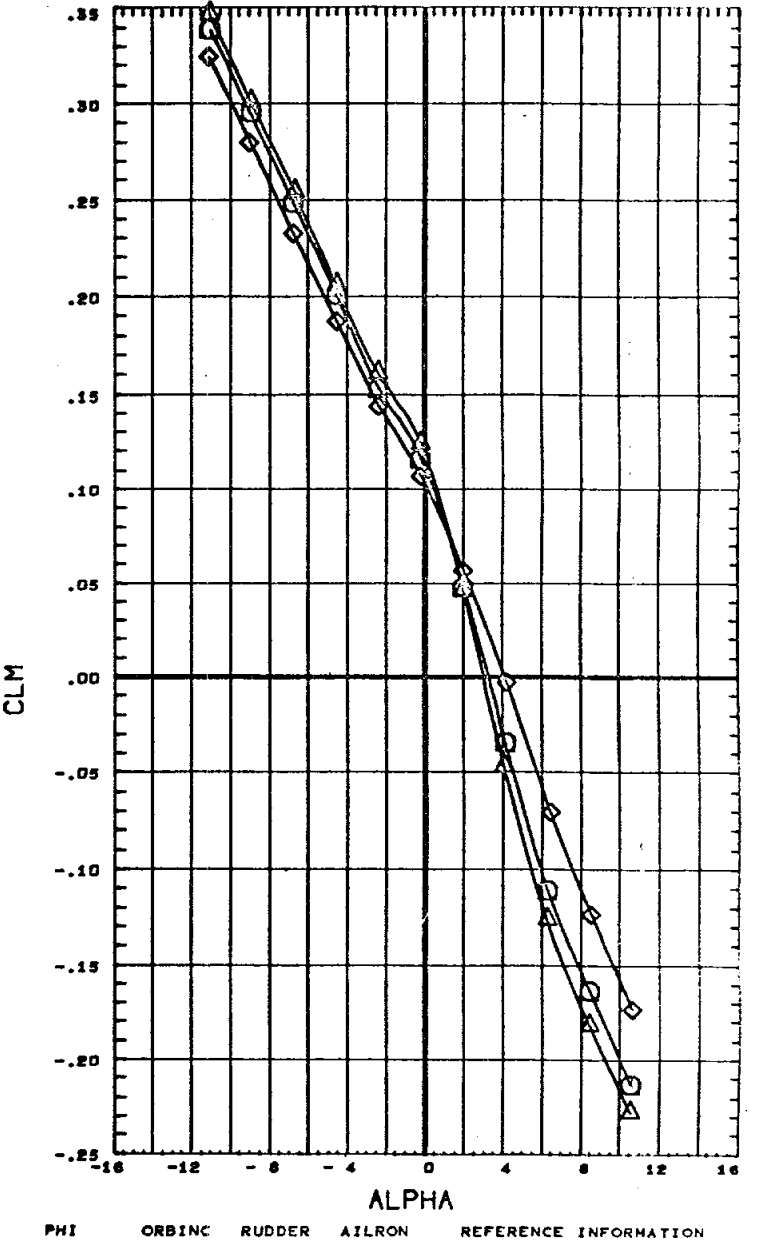
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





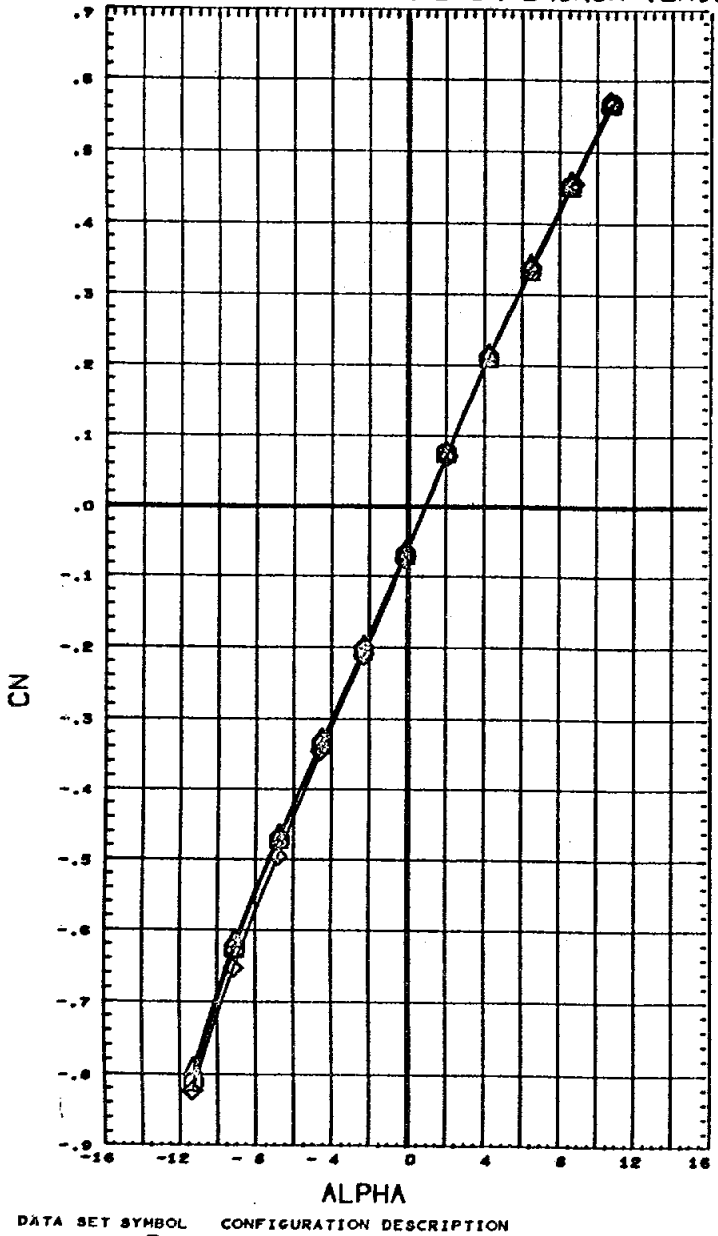
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

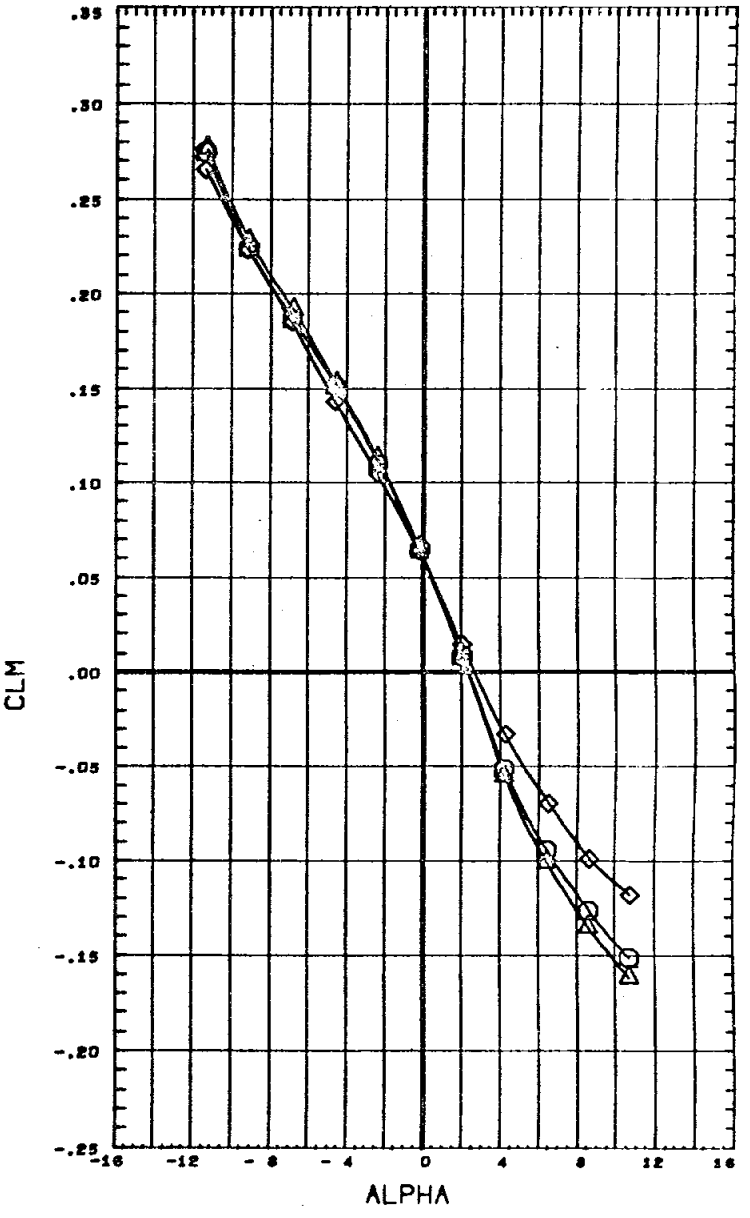
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





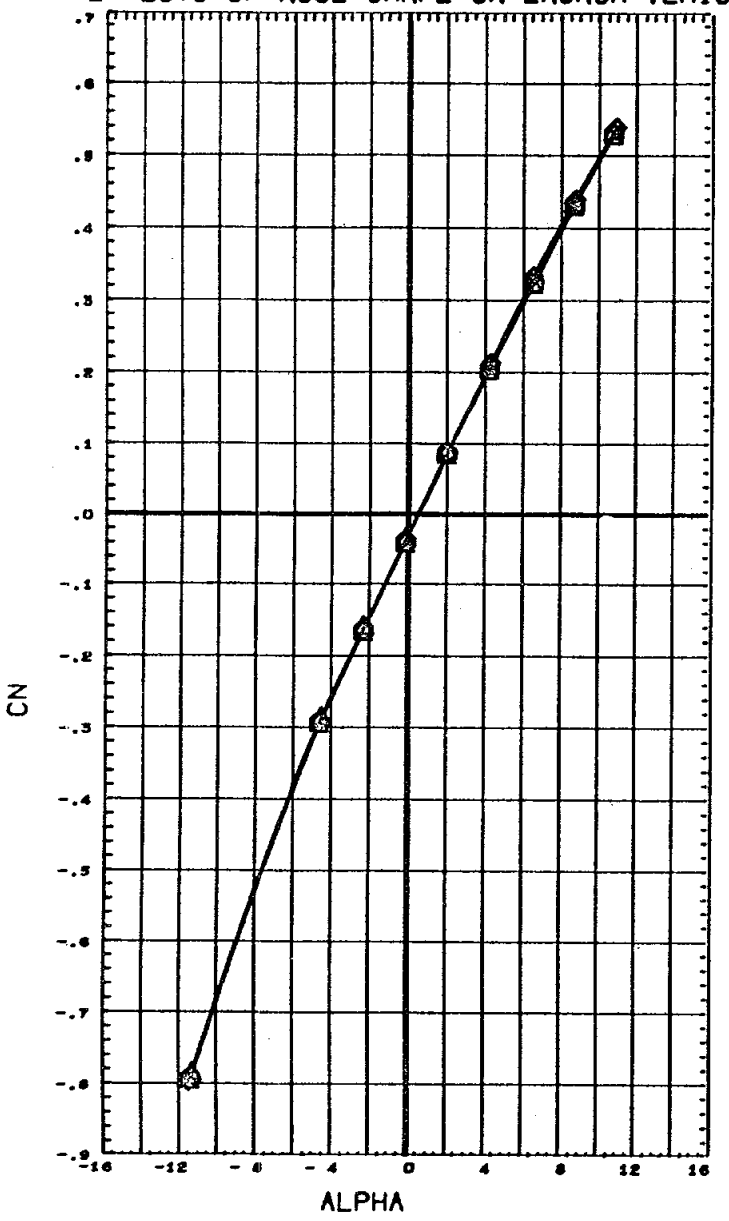
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

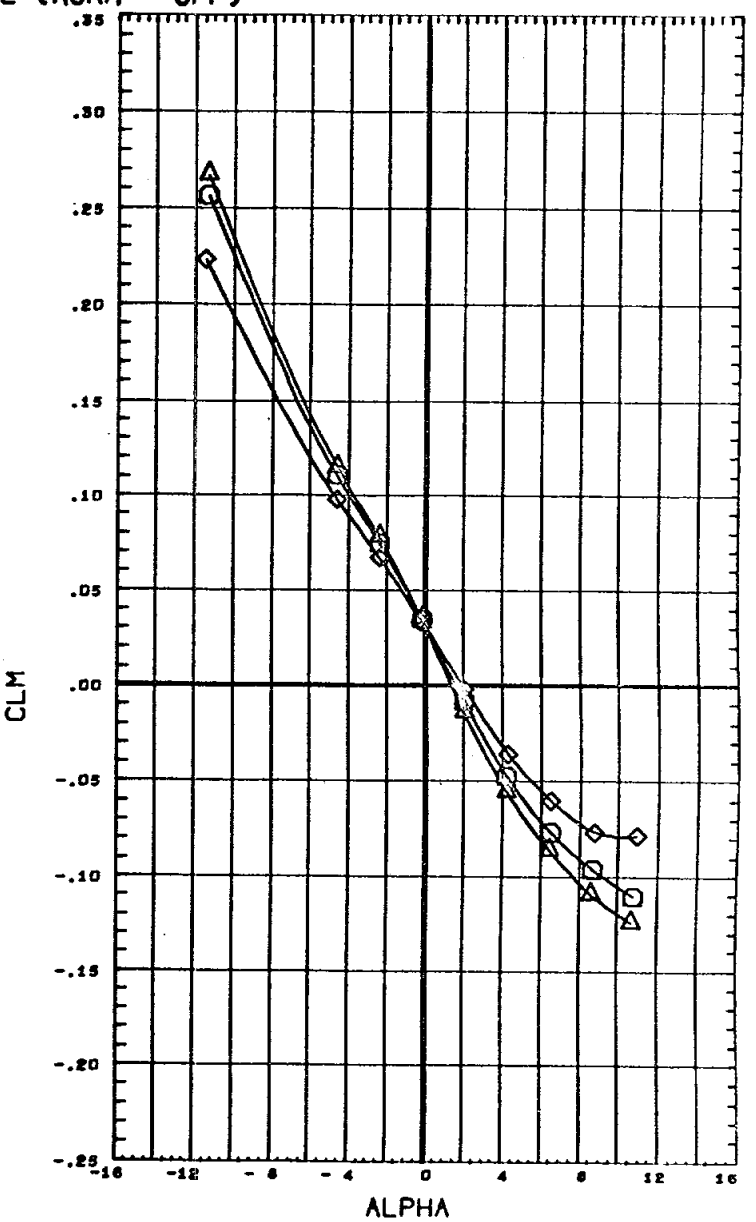
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.004)	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





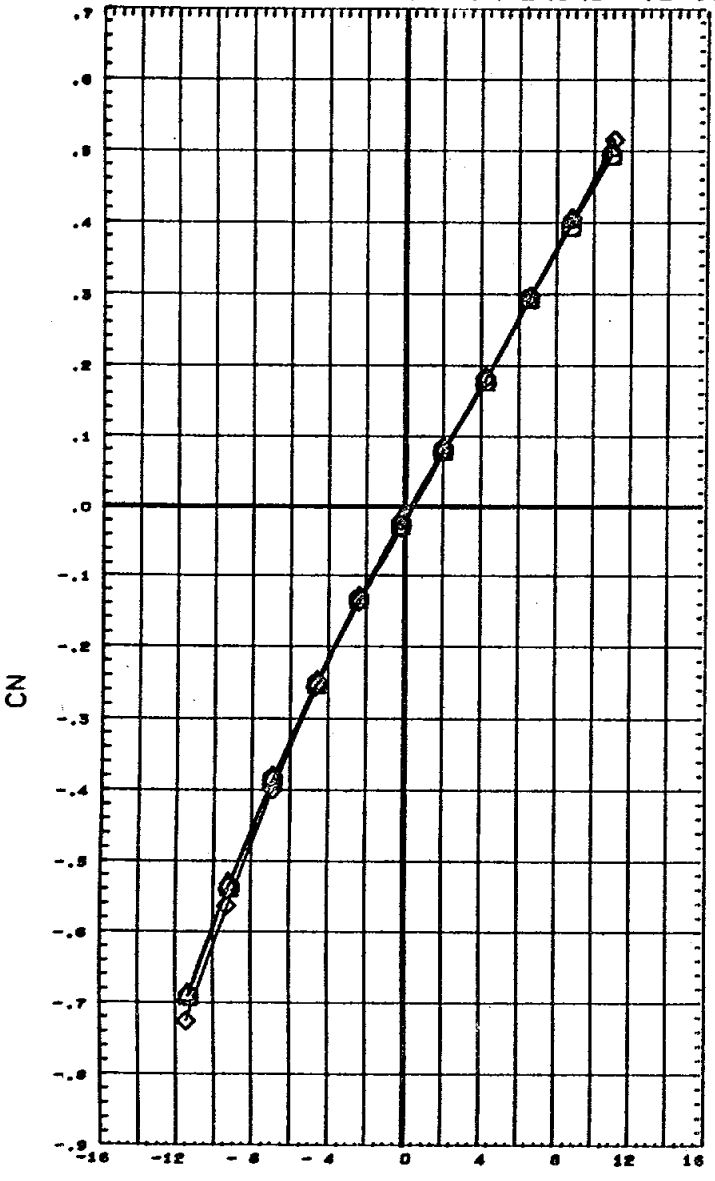
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

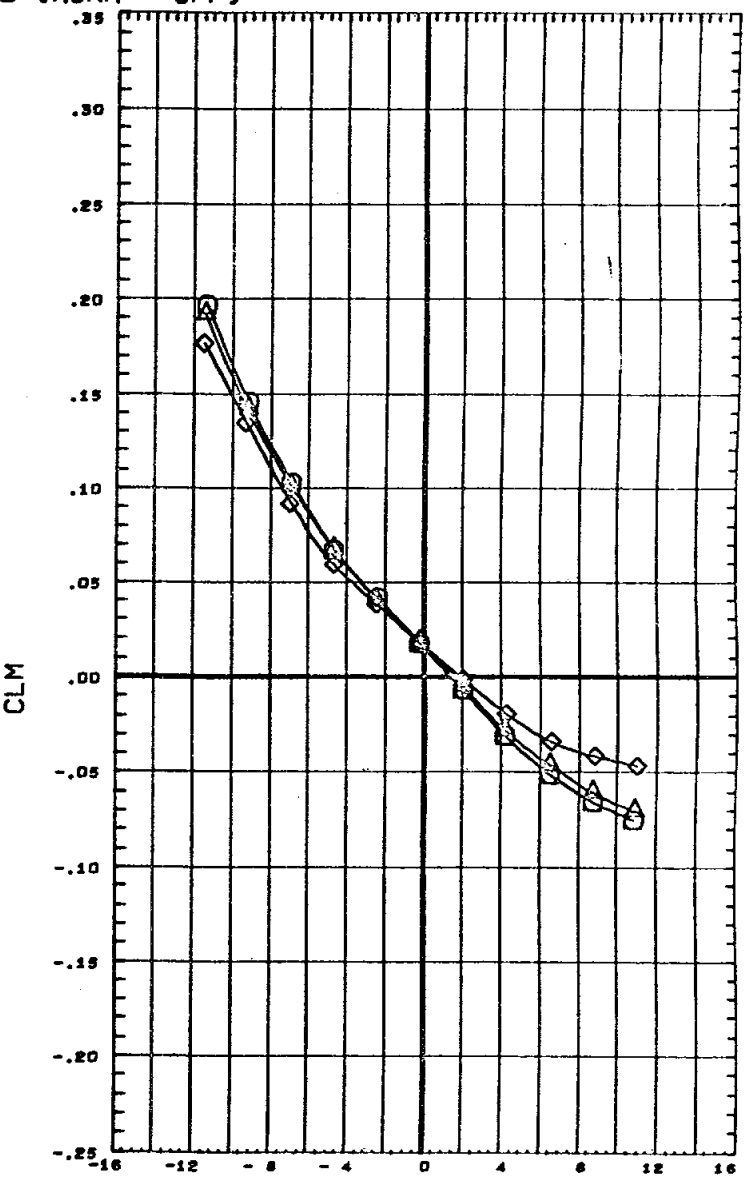
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





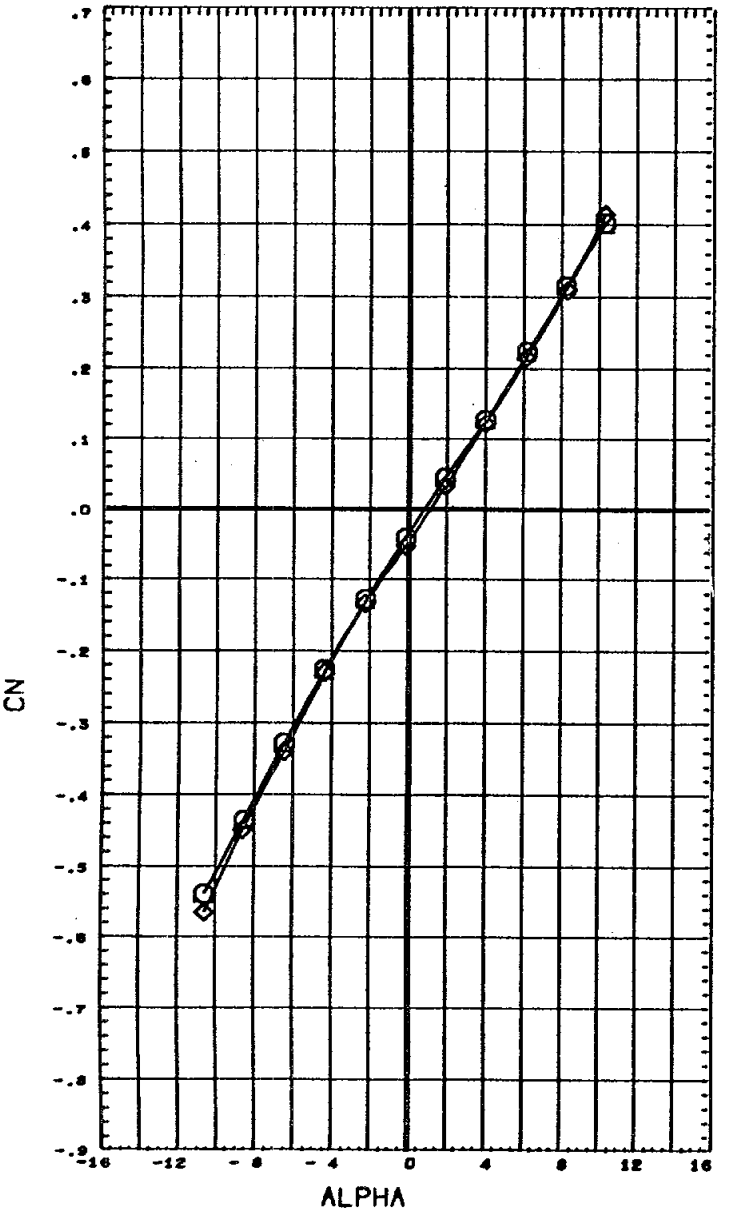
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677D10)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

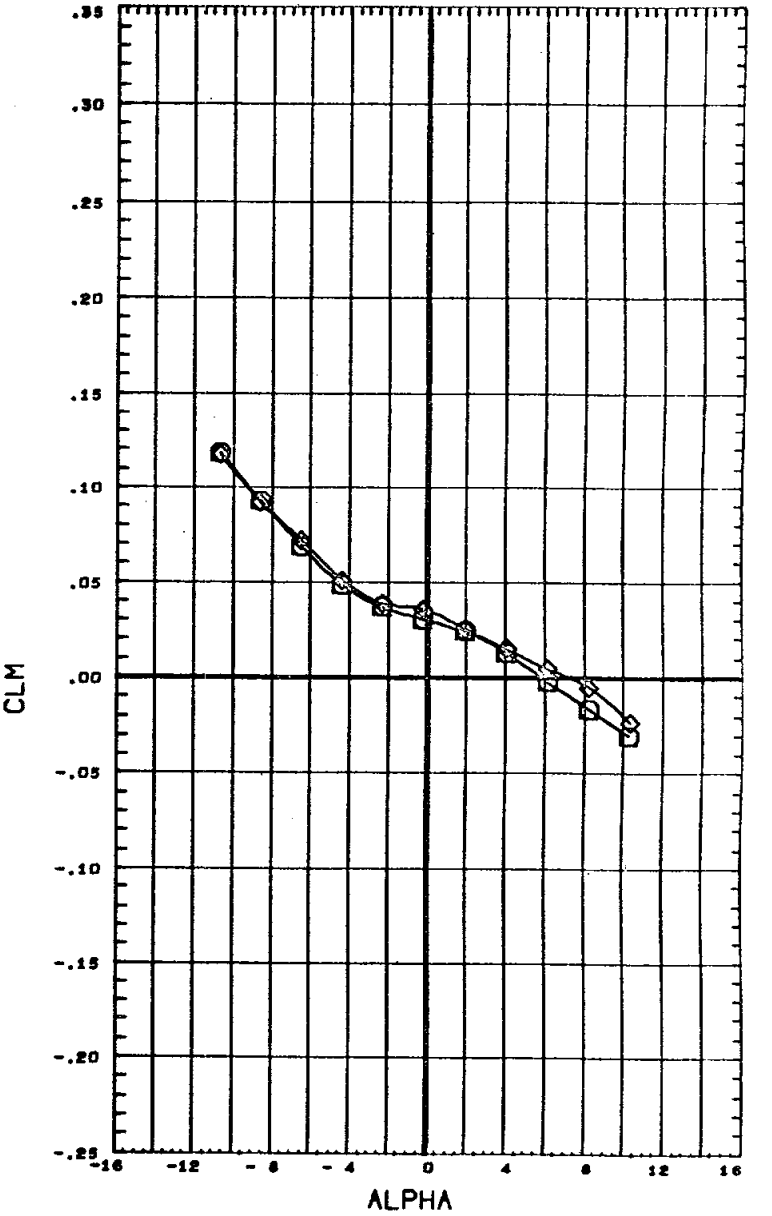
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





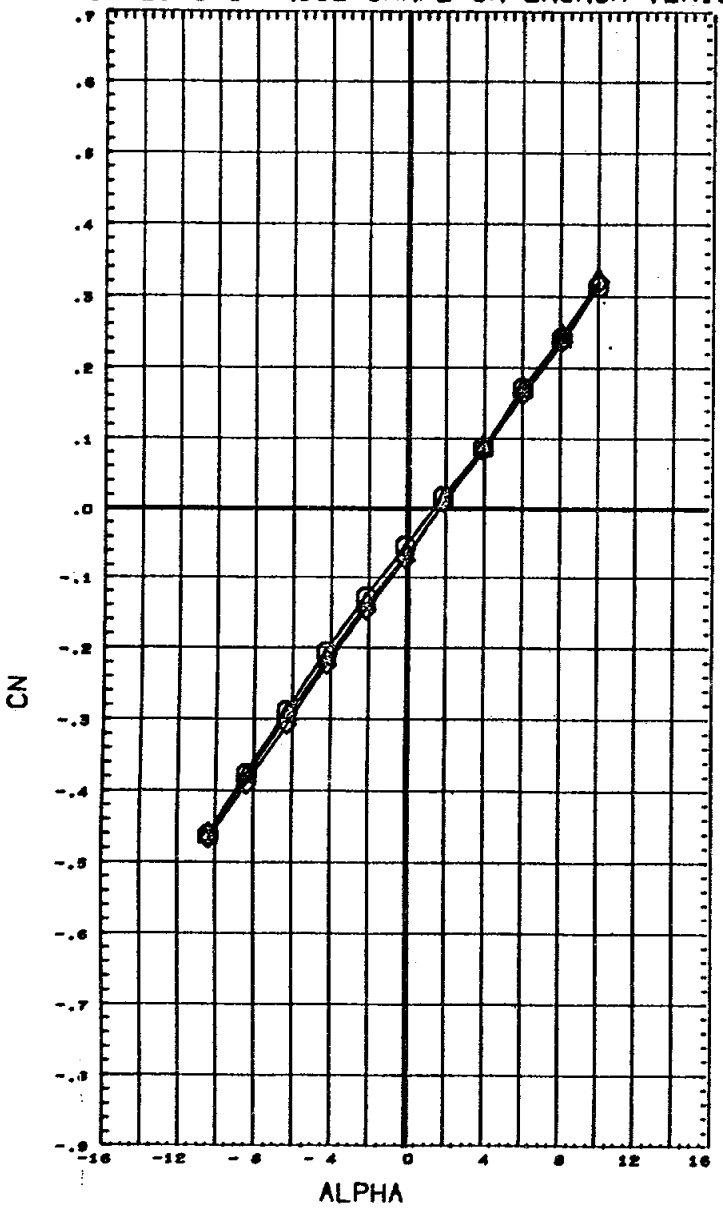
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

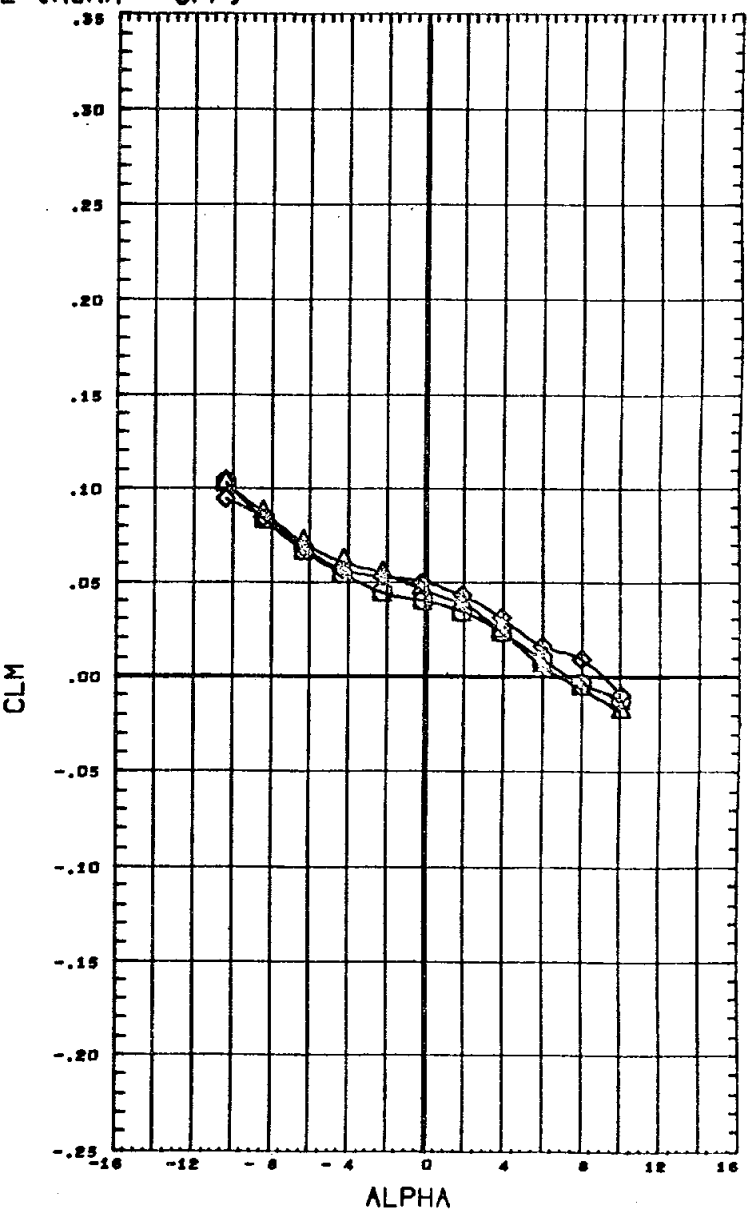
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





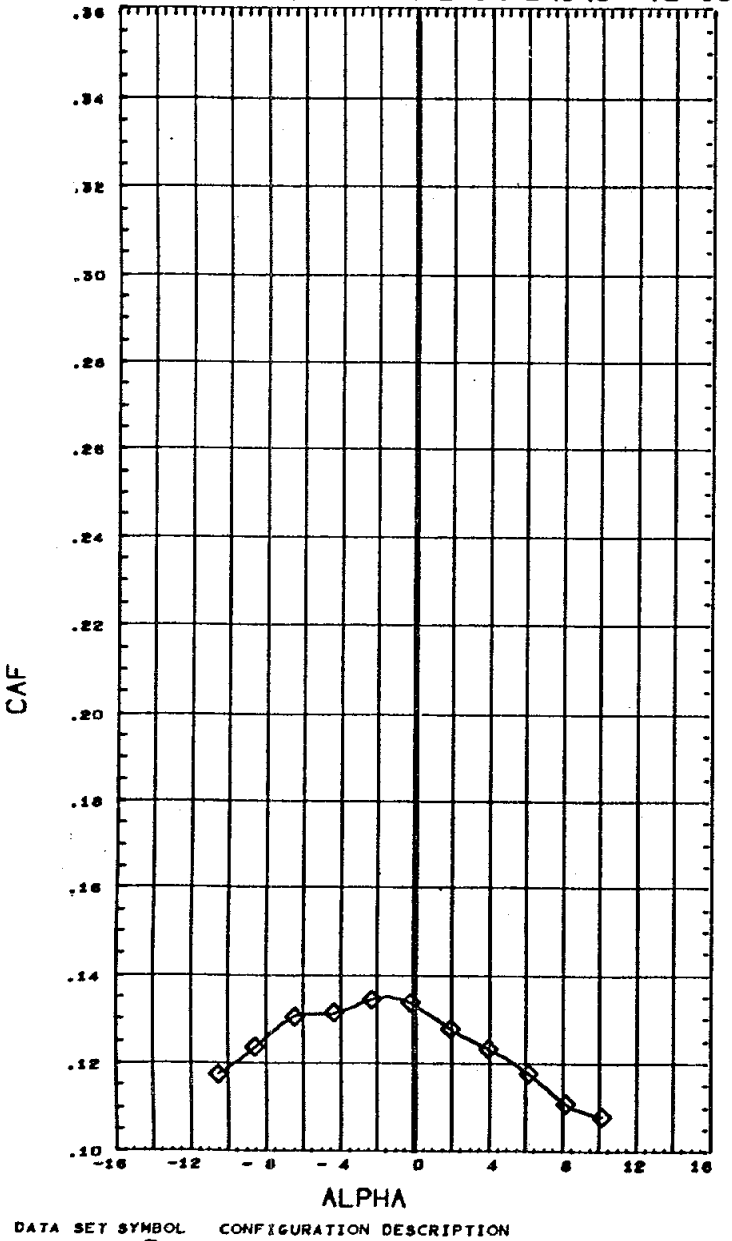
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(G77010)	△	M556(IA1) NAR ATP BL LV (O1) (T2) (S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)

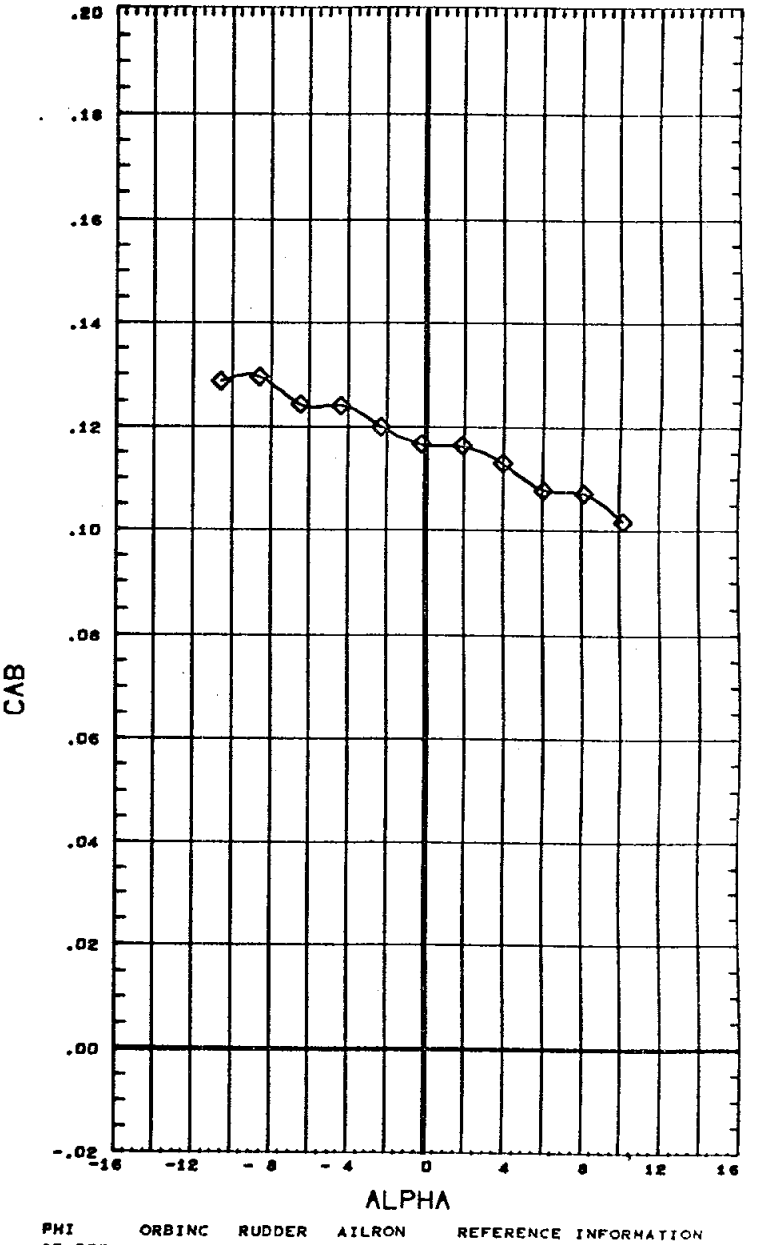
PHI	ORBINC	RUDDER	AILRON
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60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





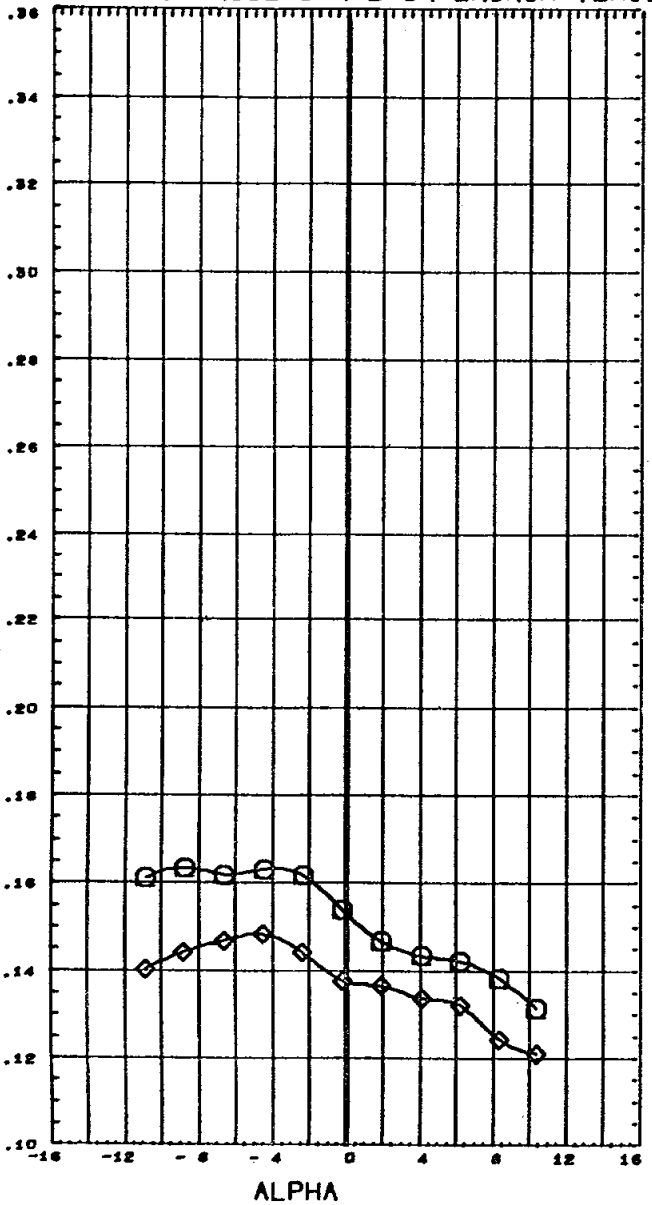
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

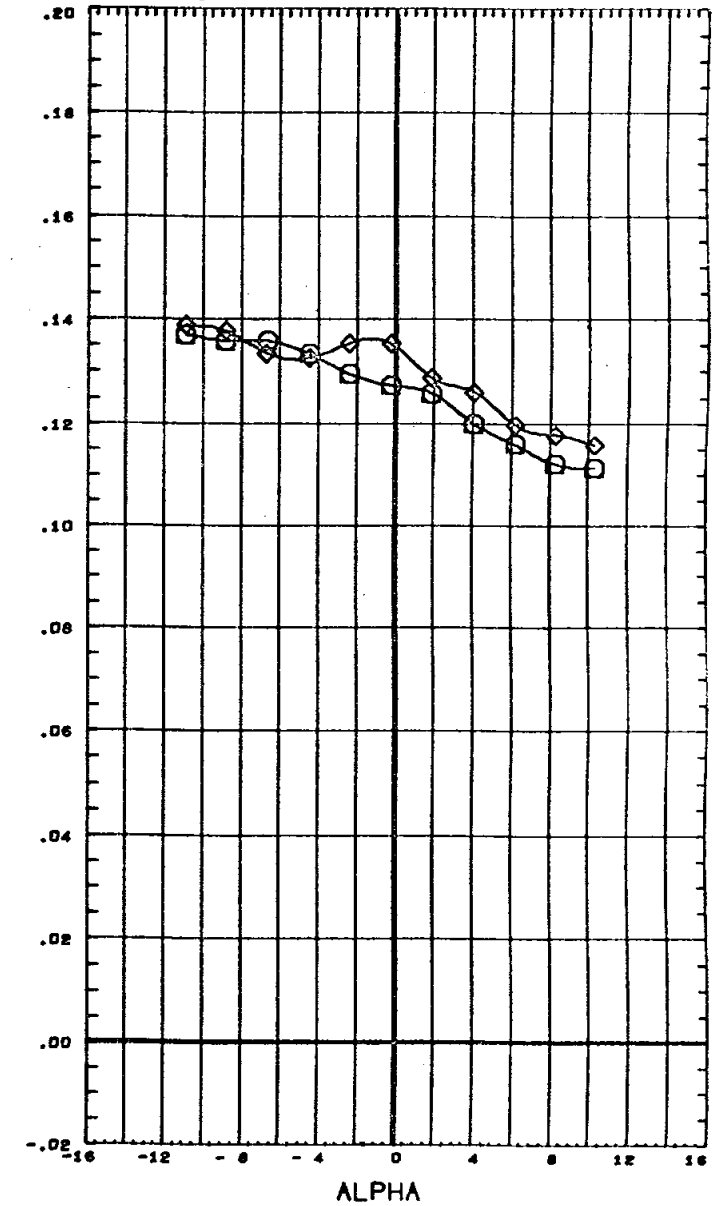
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





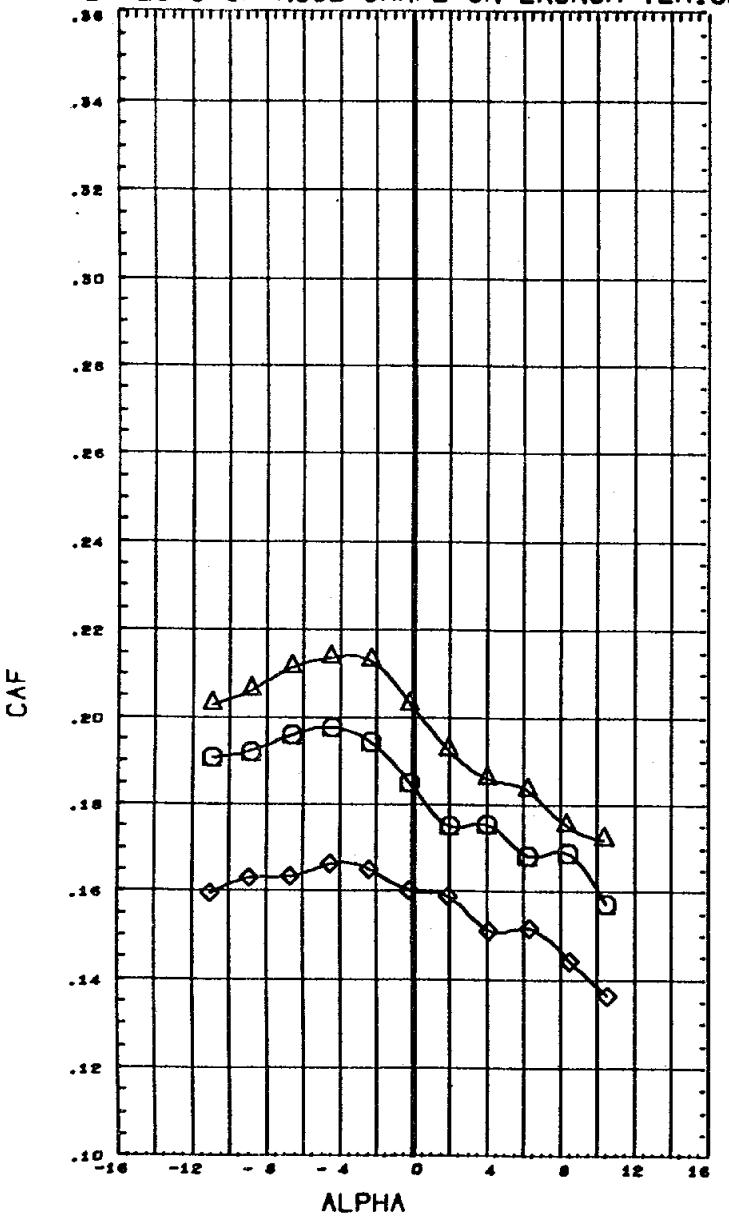
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
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(G77010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

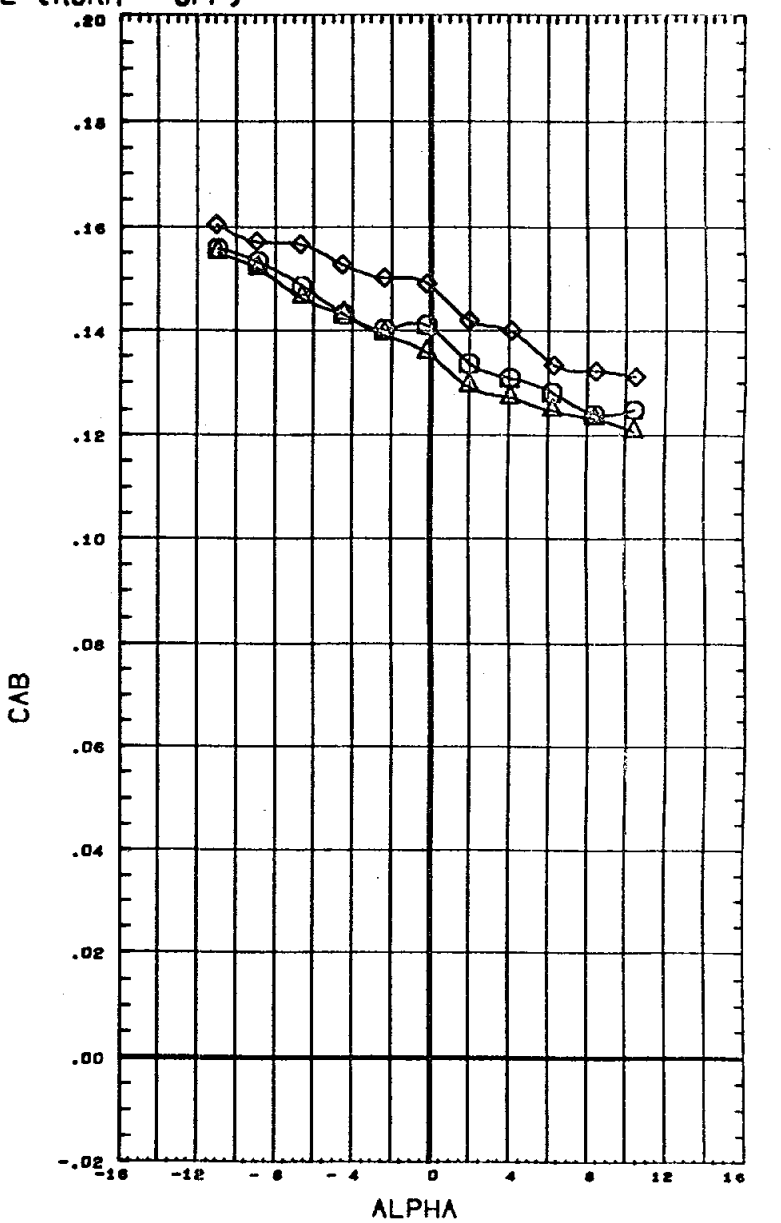
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





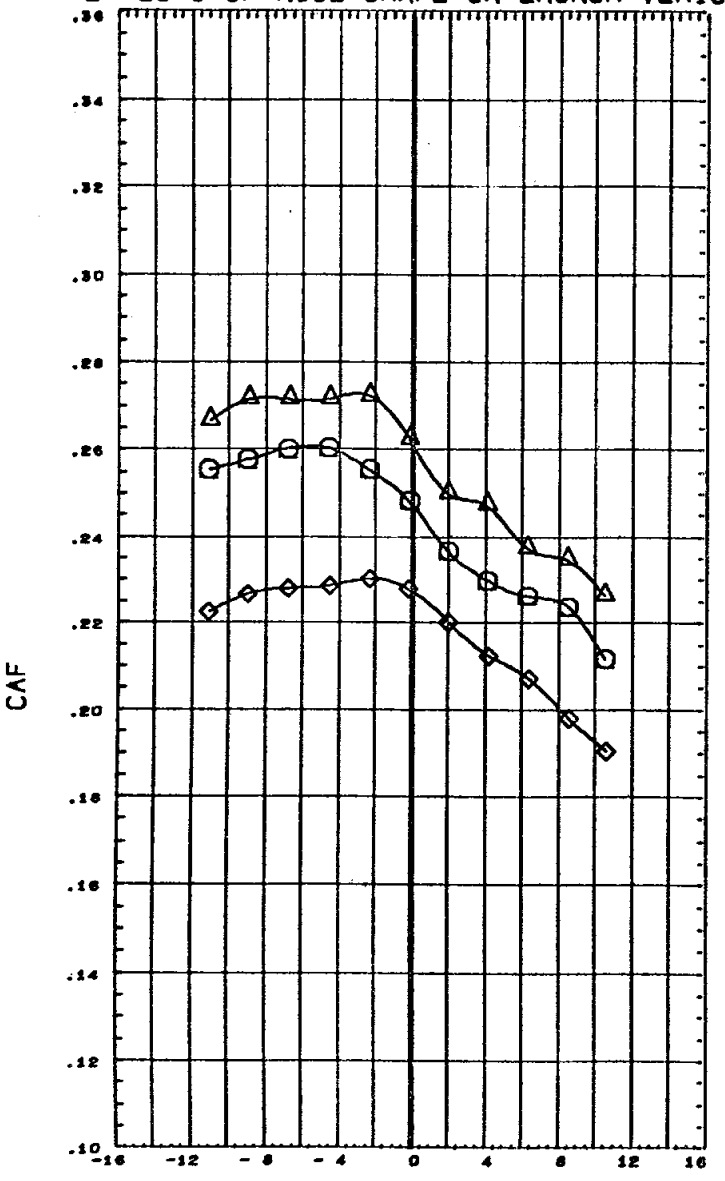
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

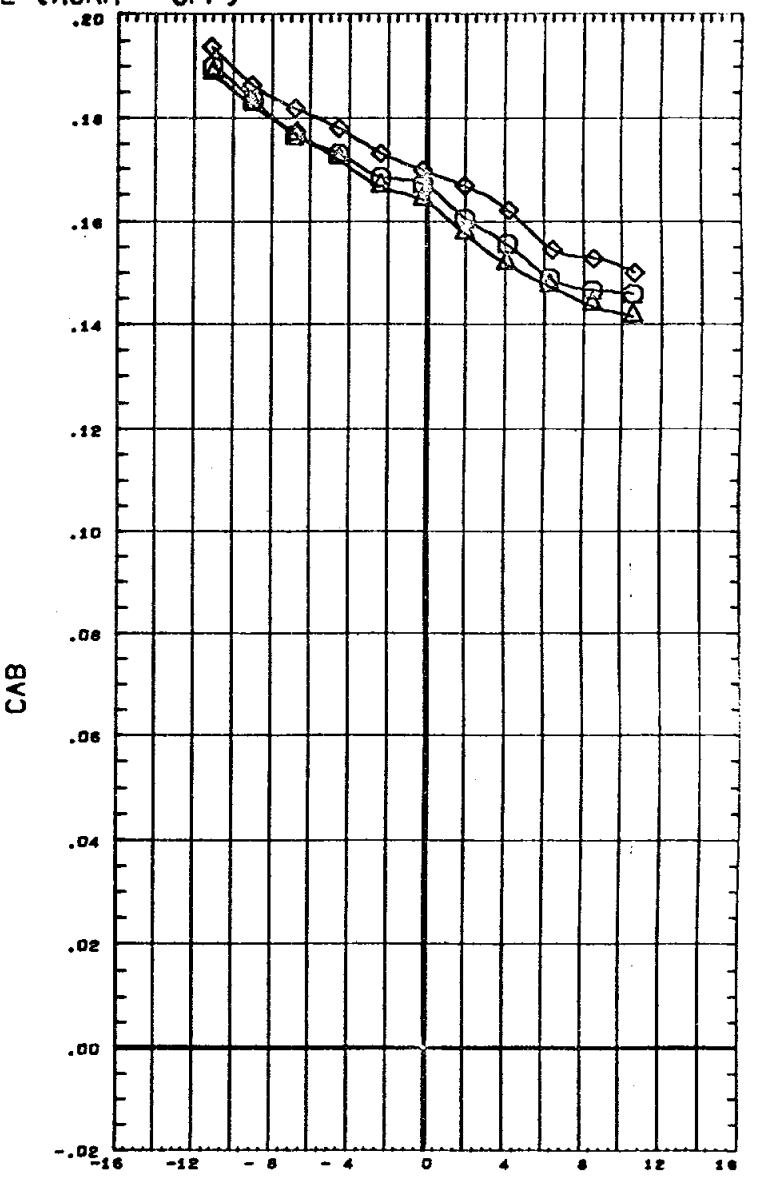
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





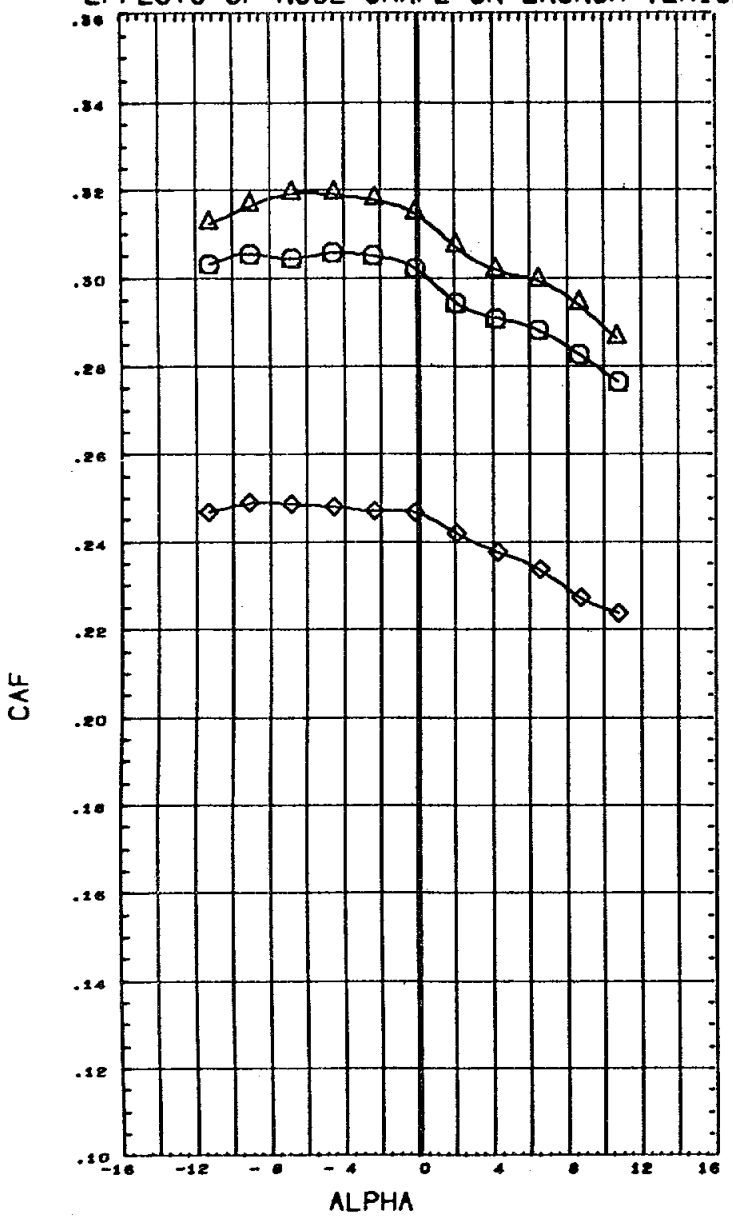
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

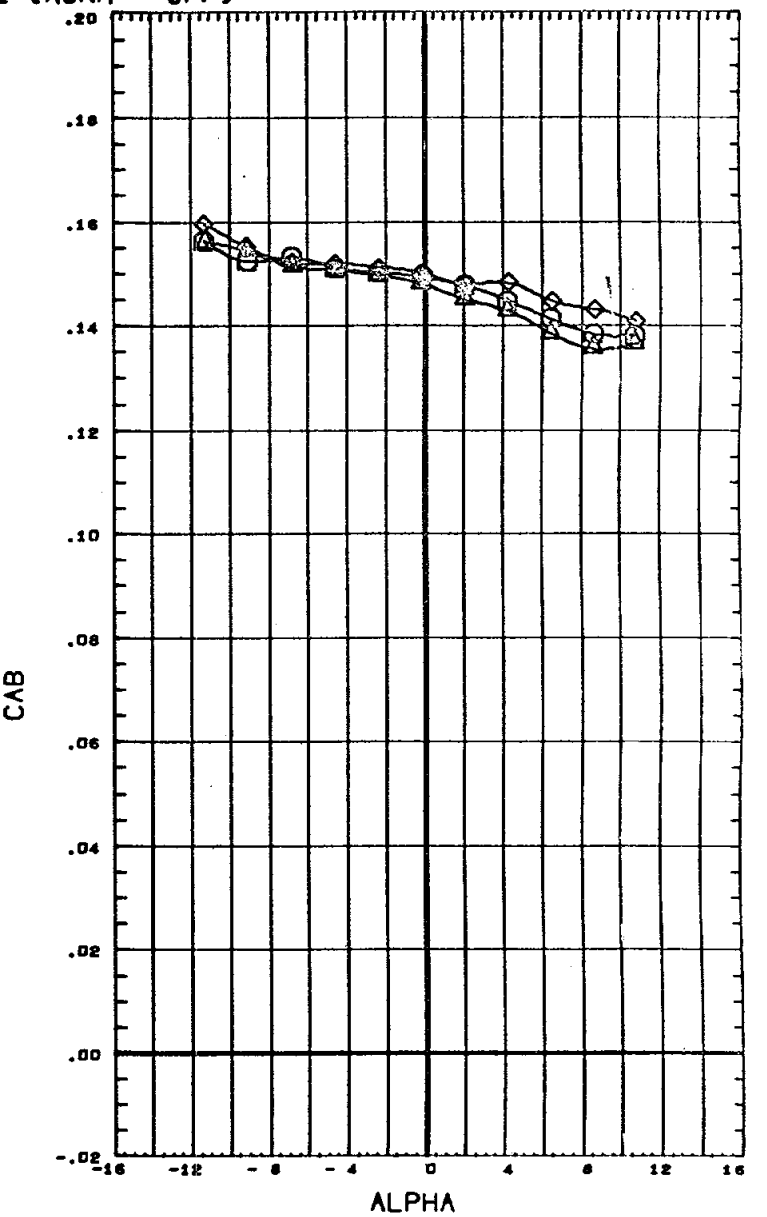
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





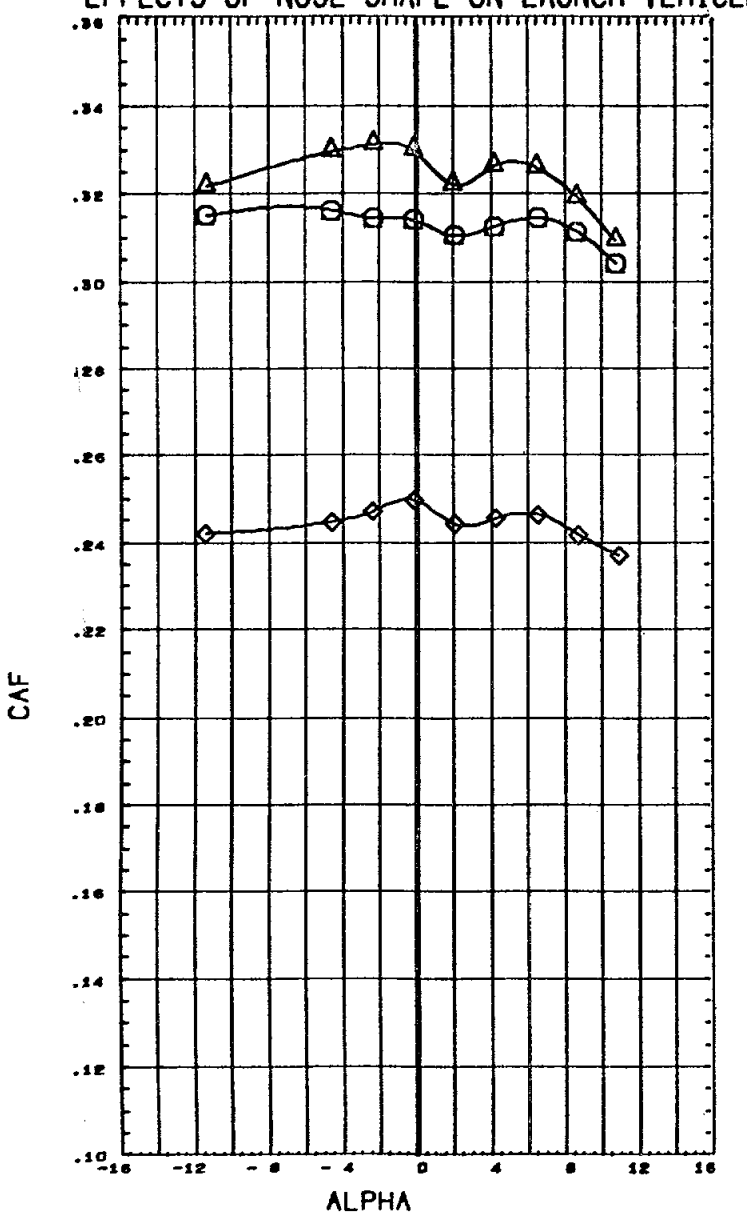
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

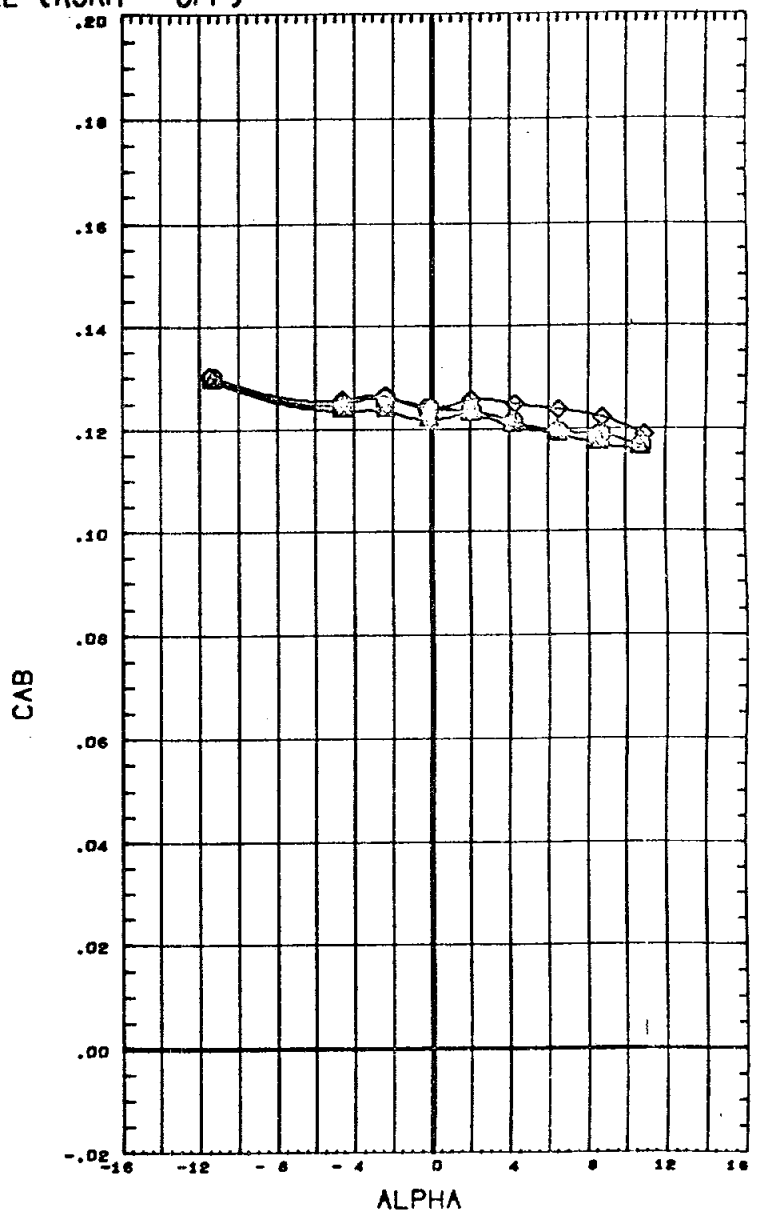
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





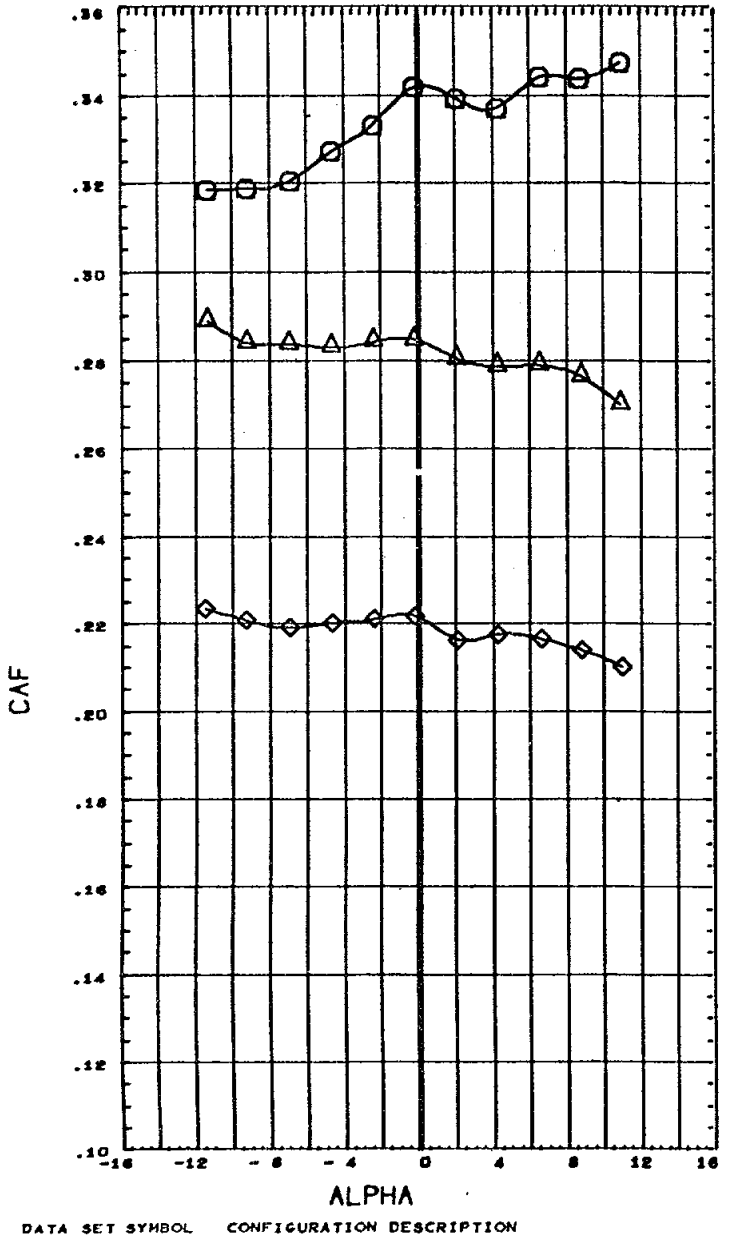
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

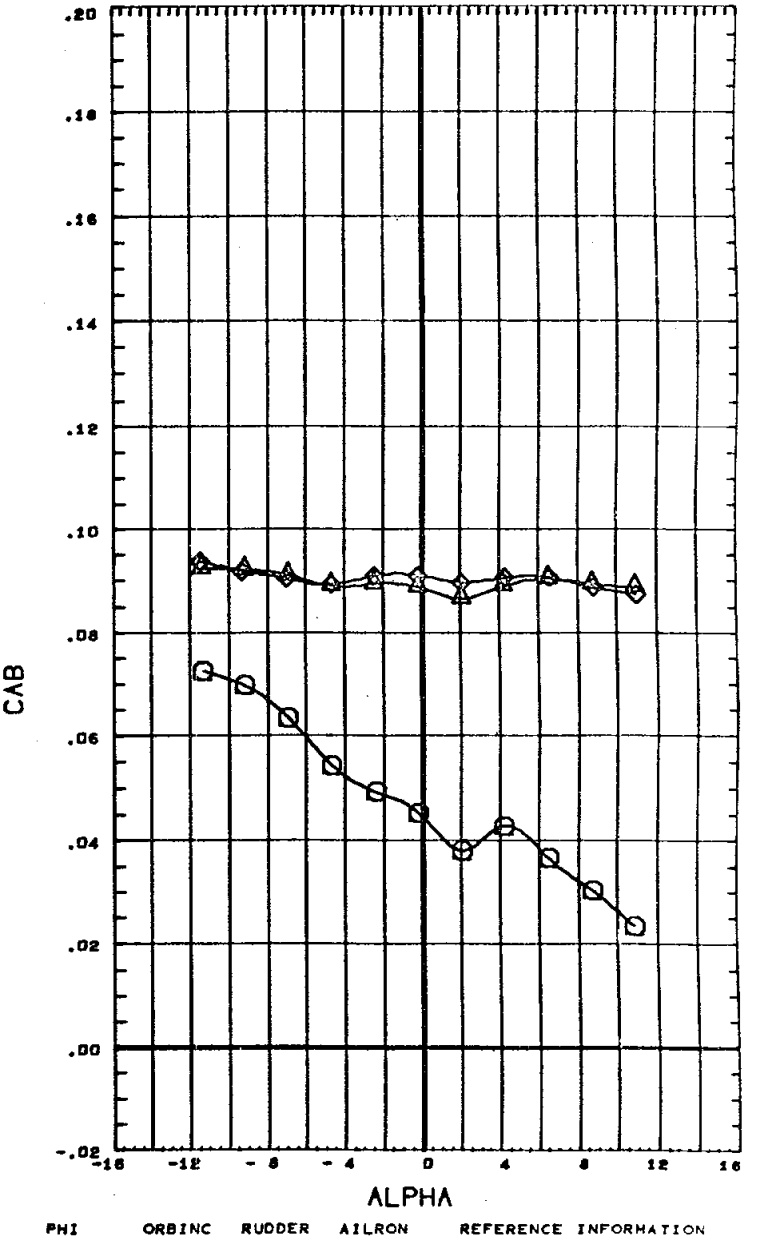
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60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





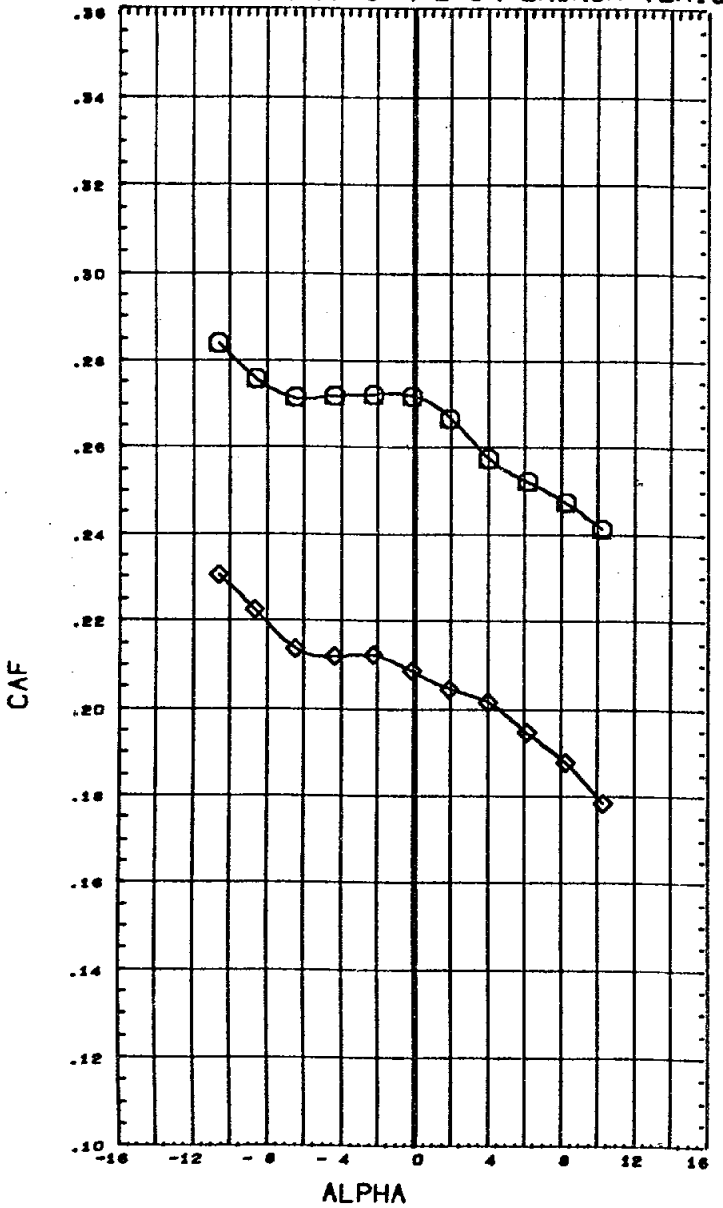
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

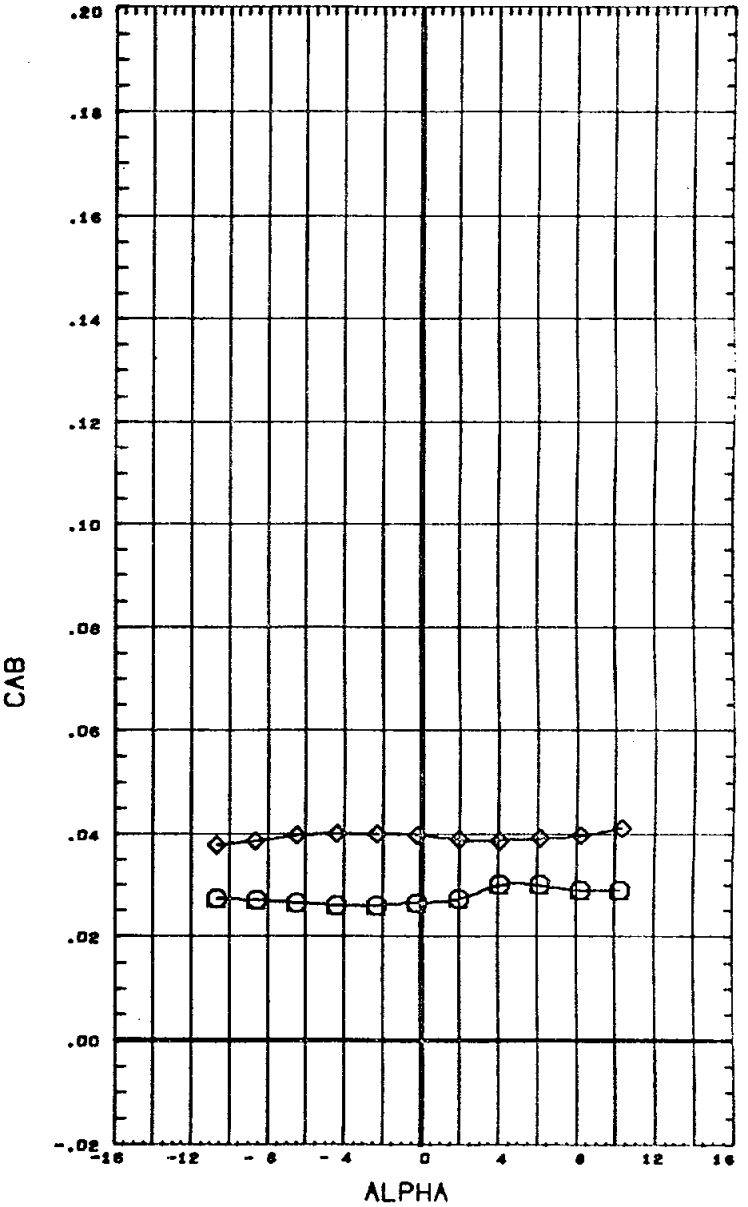
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





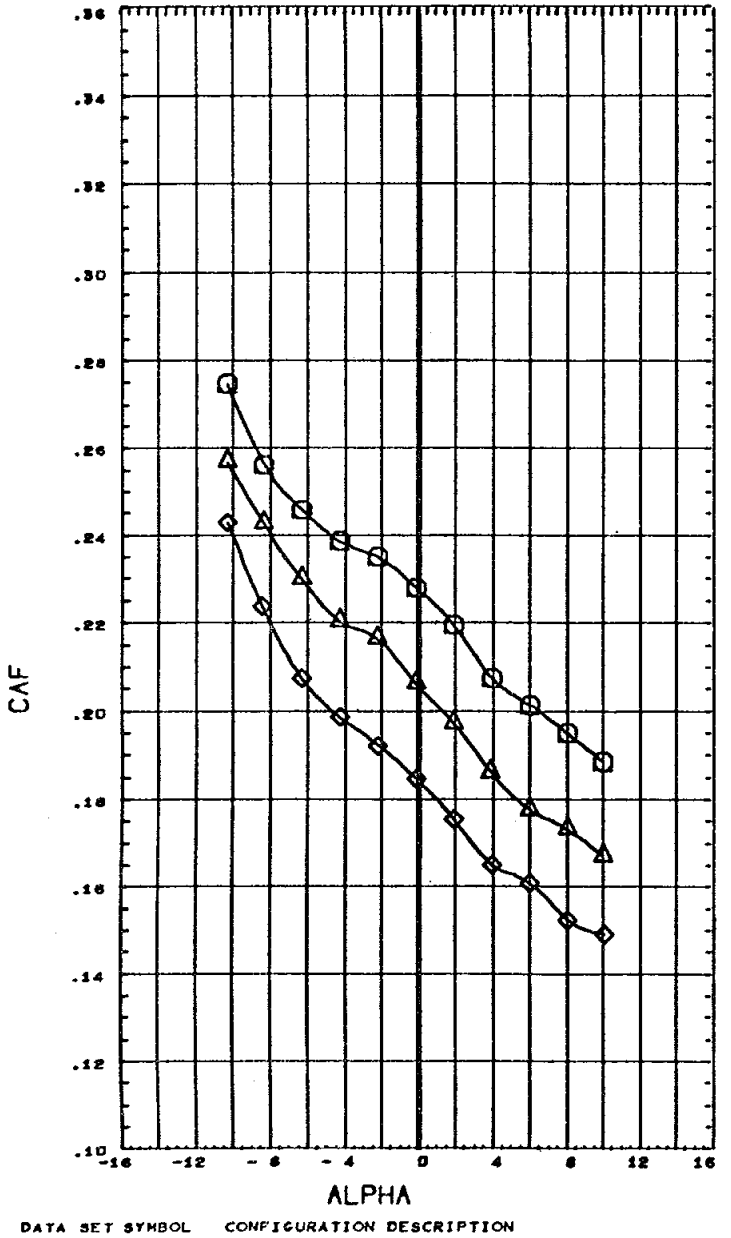
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(GT7014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(GT7010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(GT7006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

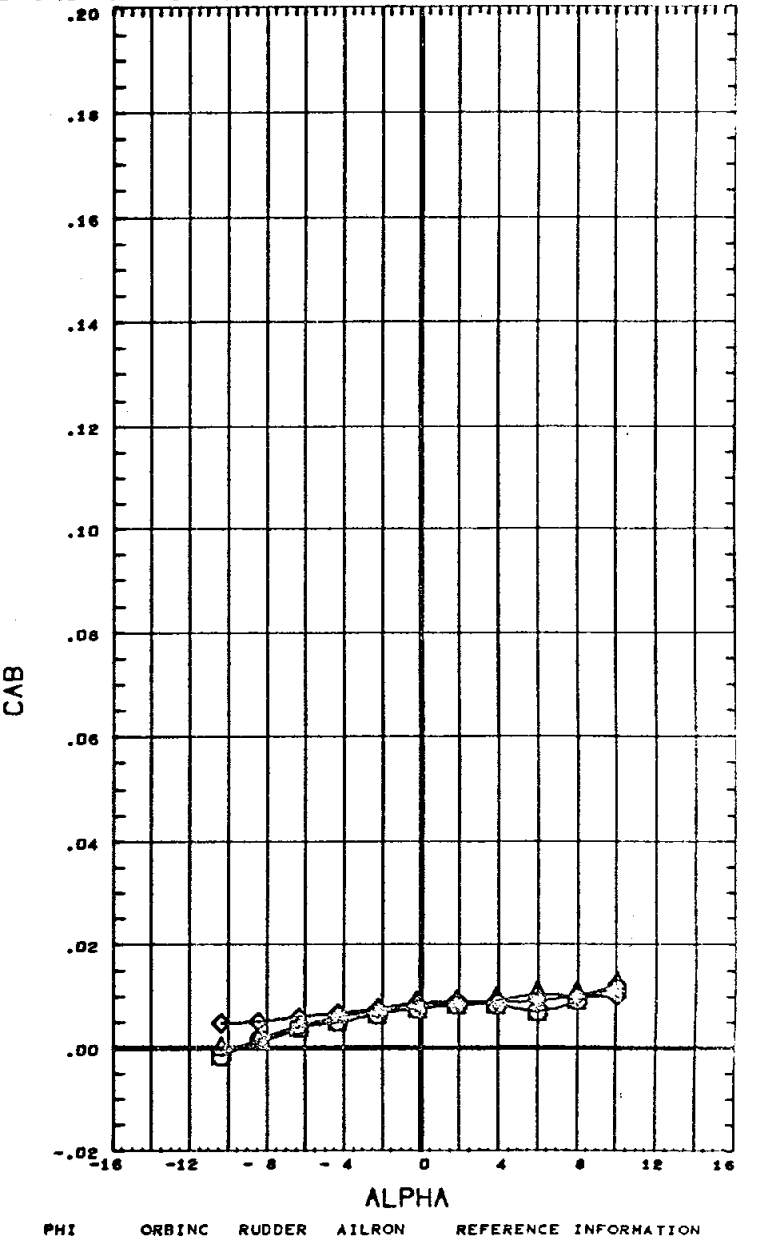
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





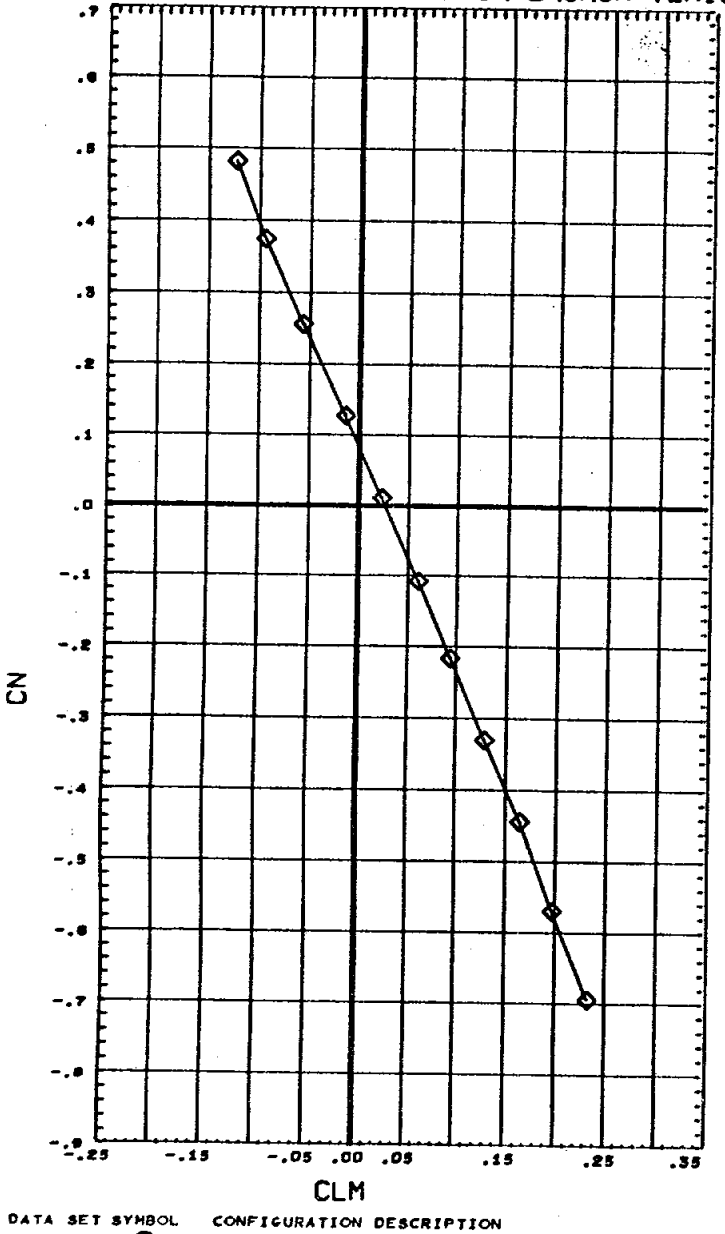
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(G77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

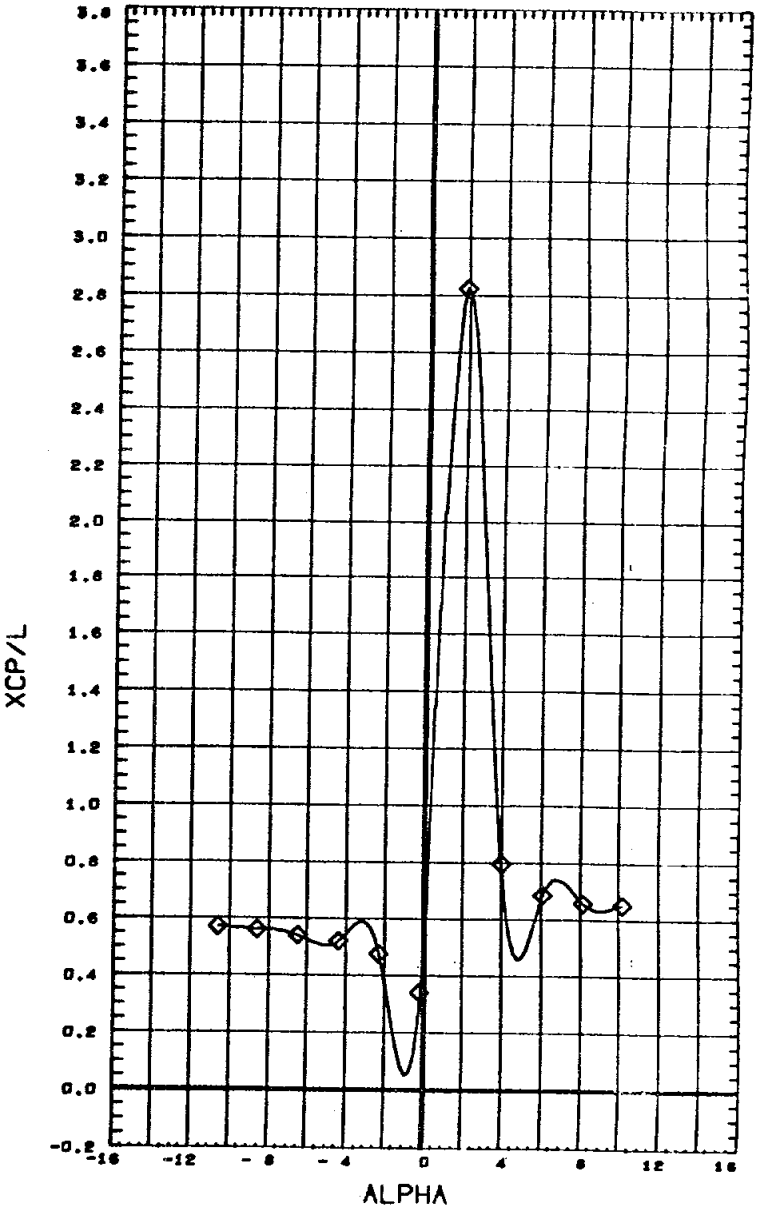
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





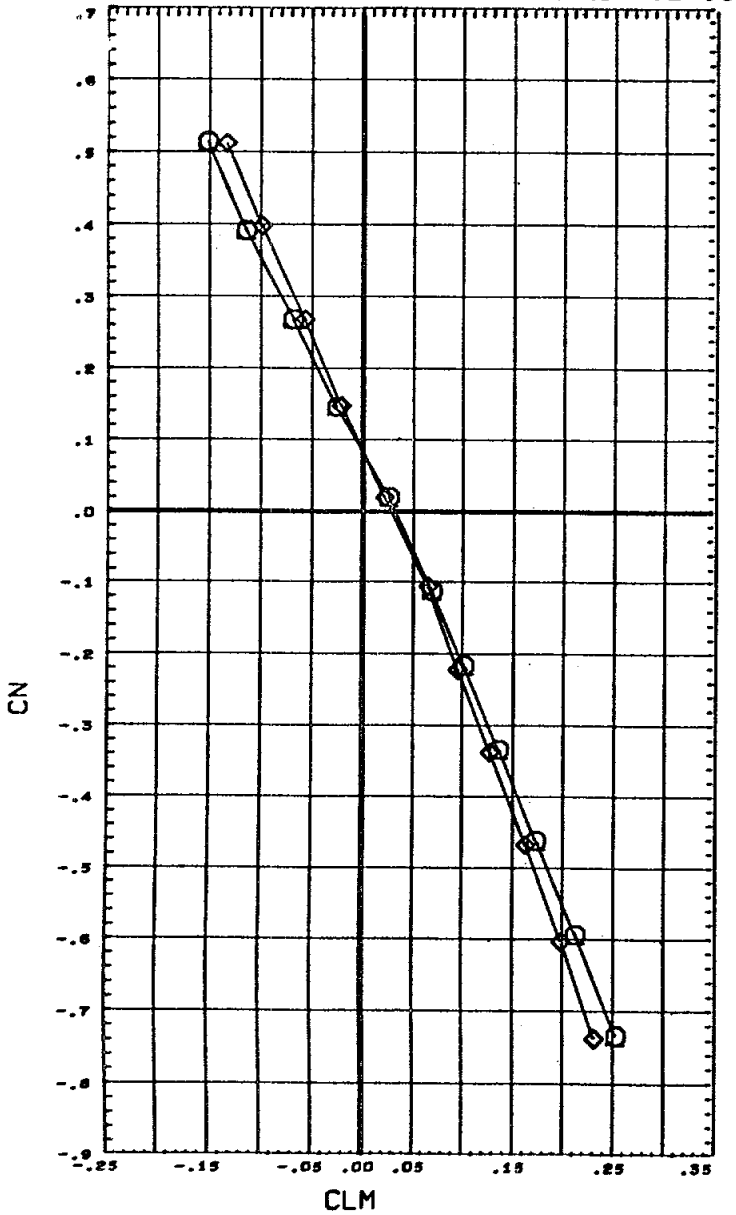
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

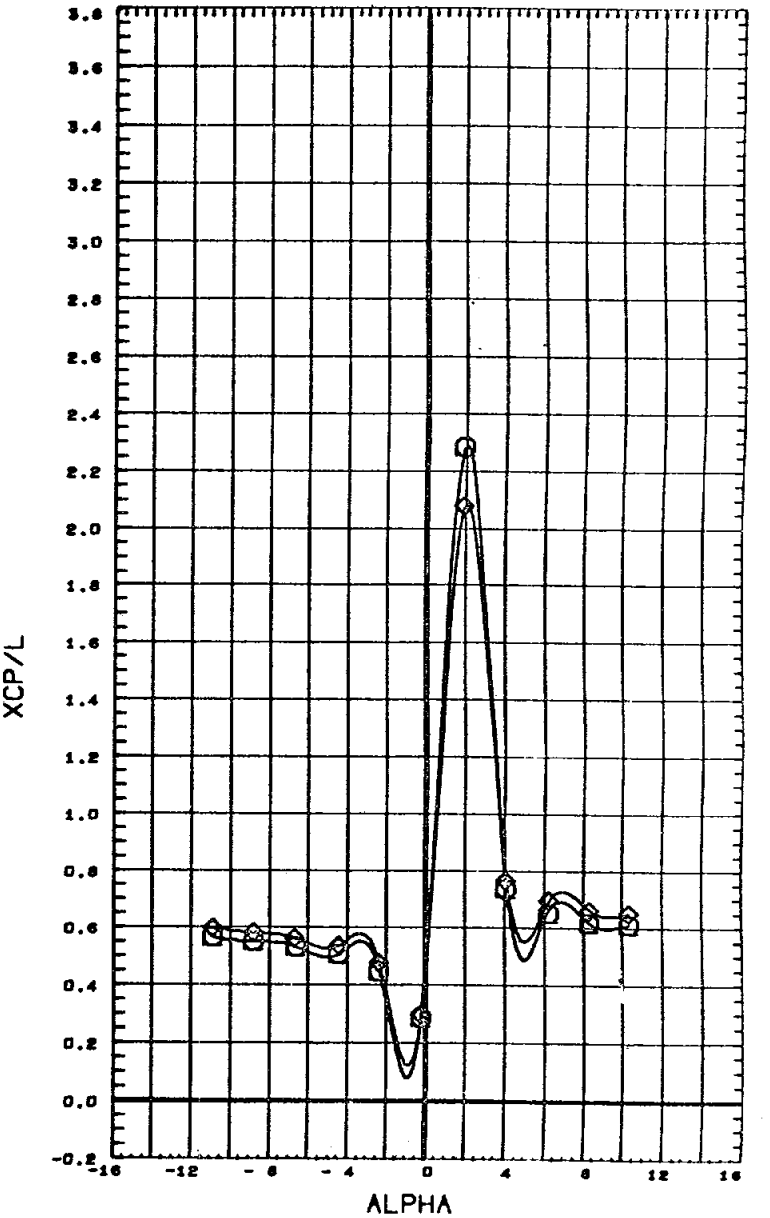
PHI	ORBINC	RUDDER	AILRON
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60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





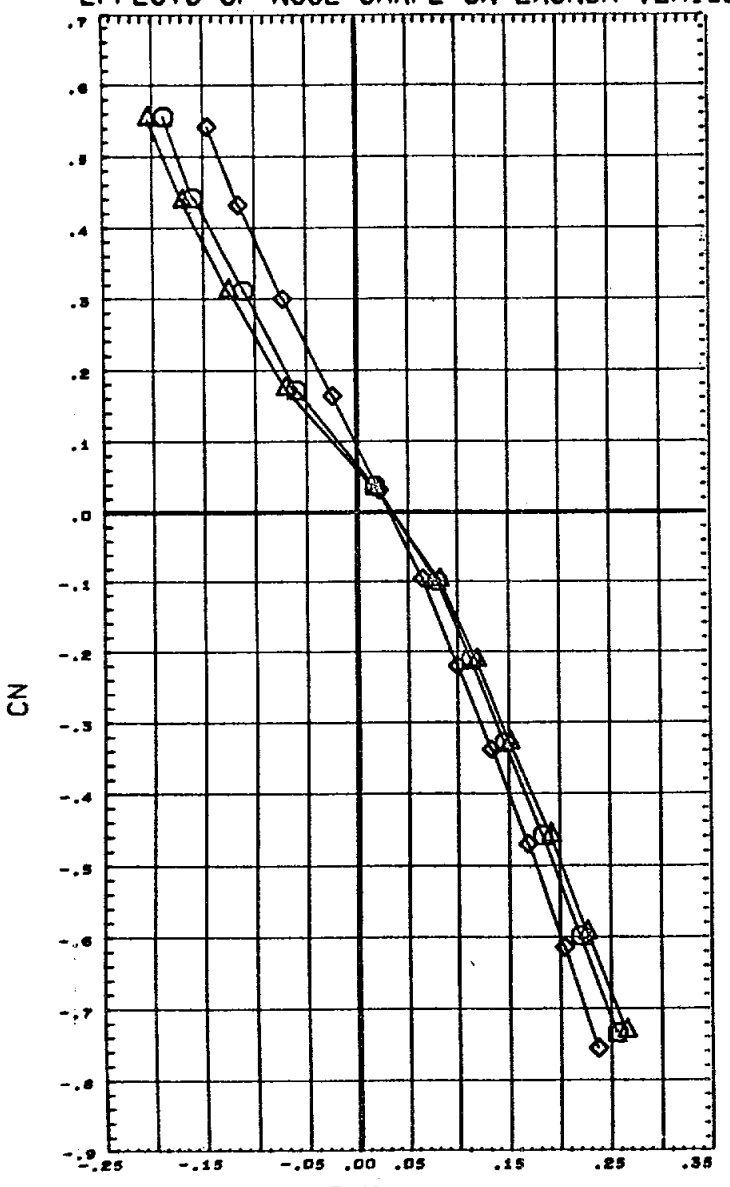
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

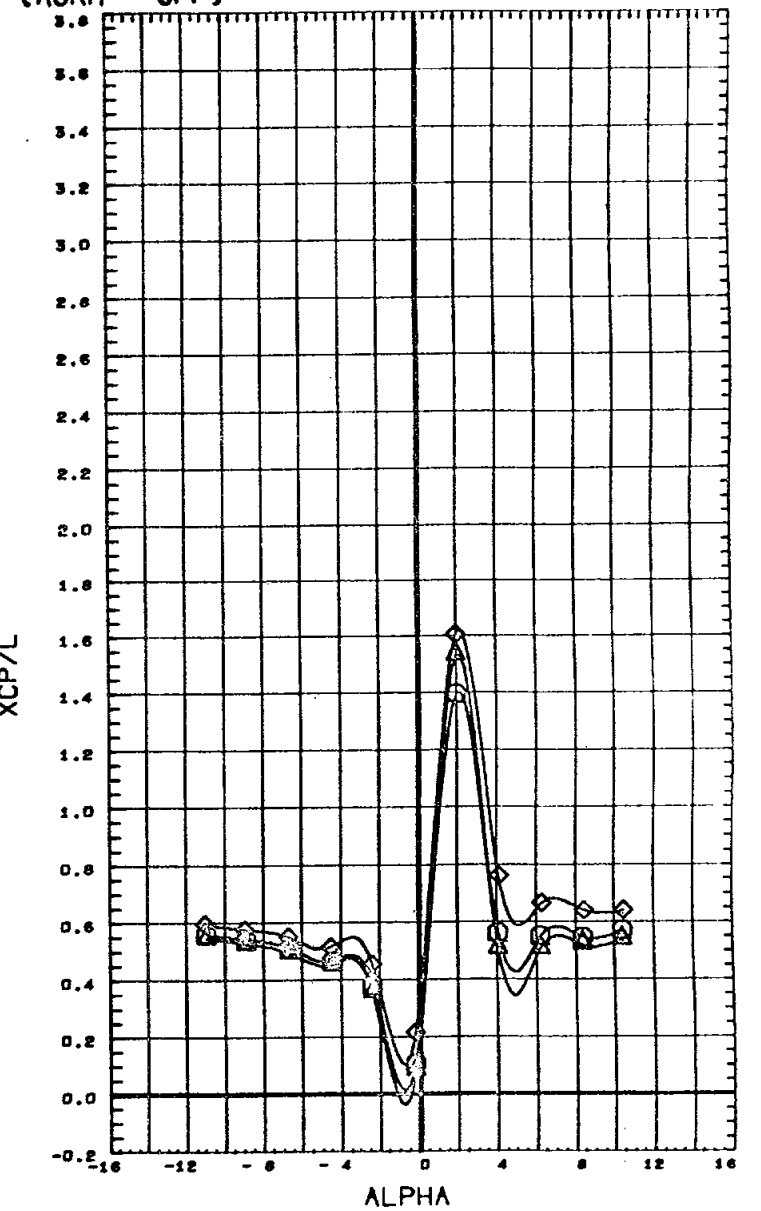
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





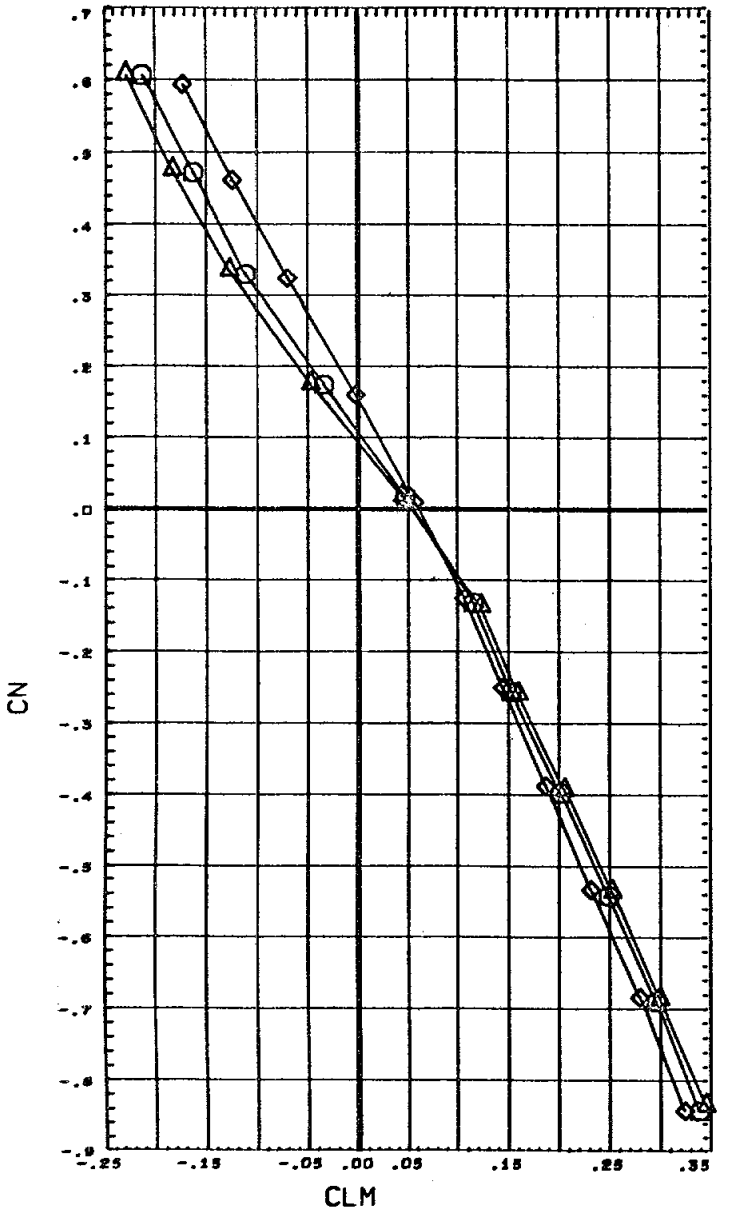
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

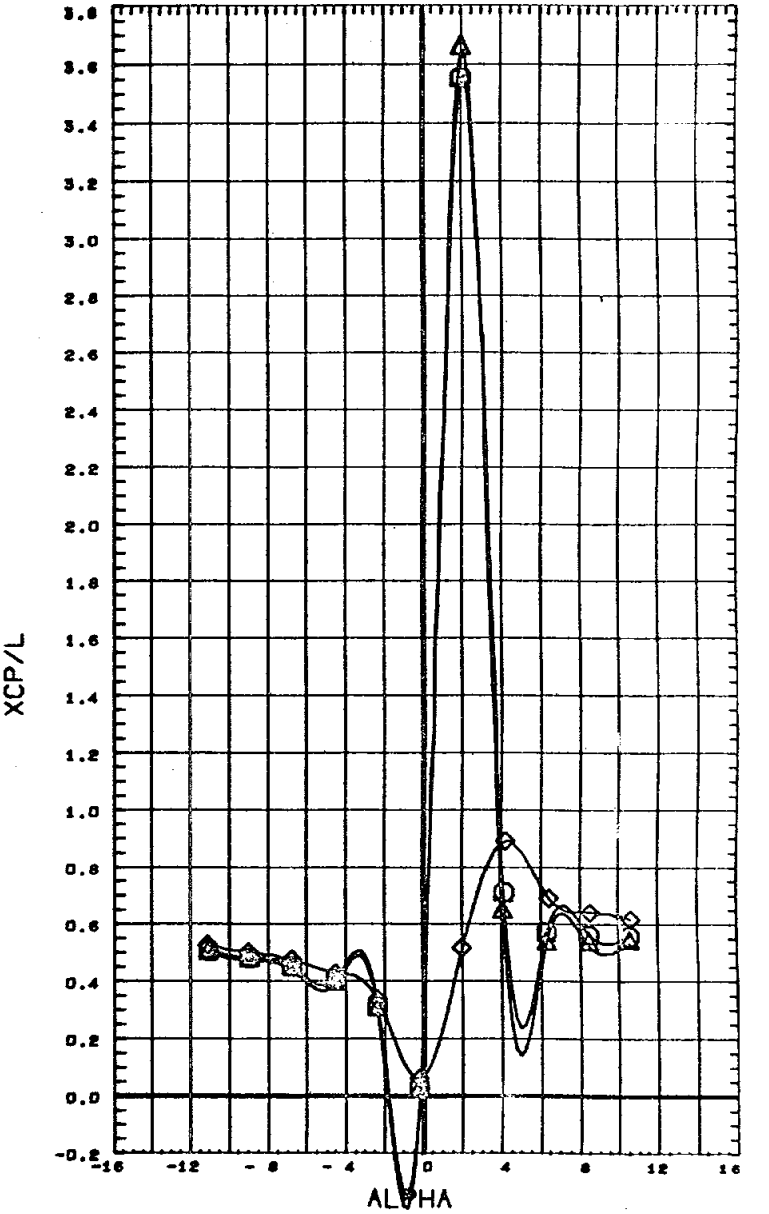
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





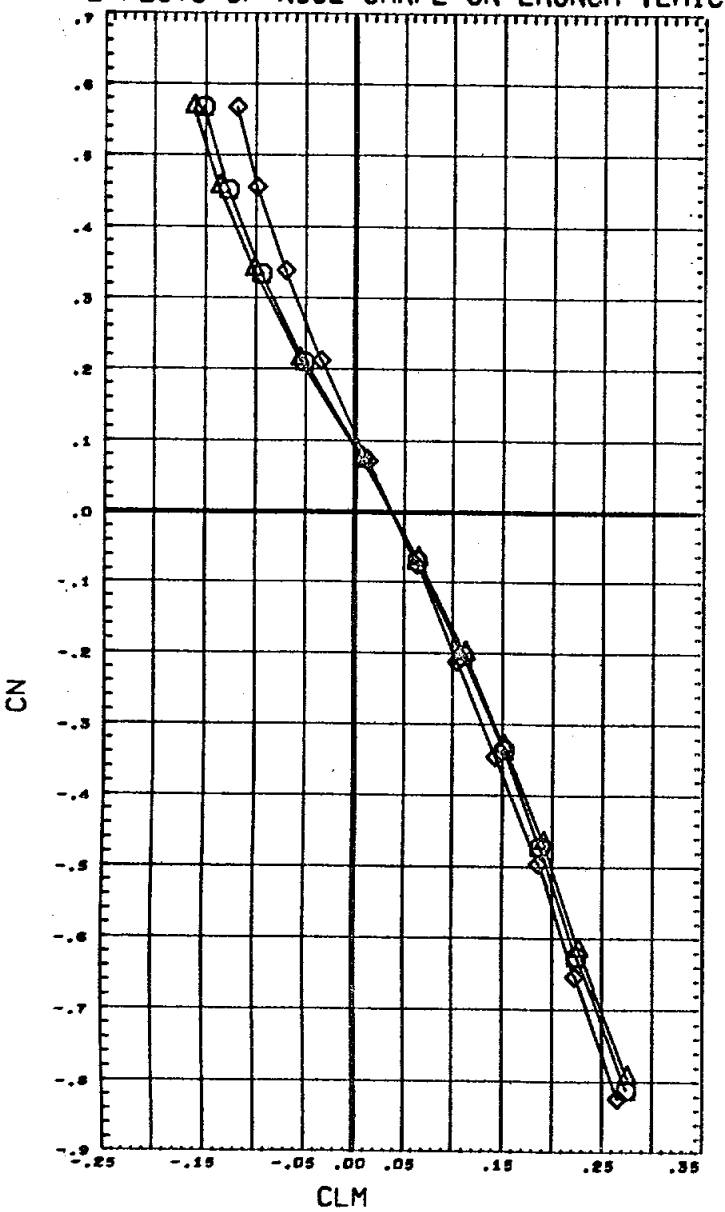
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

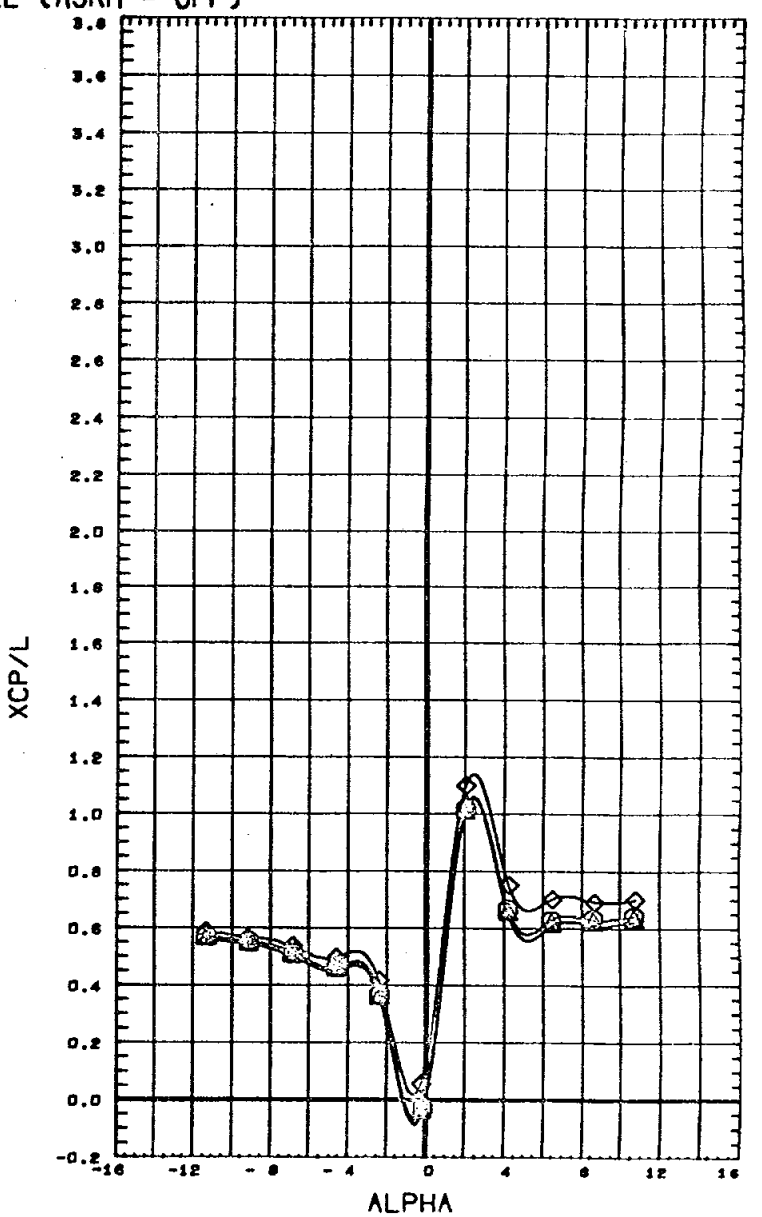
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





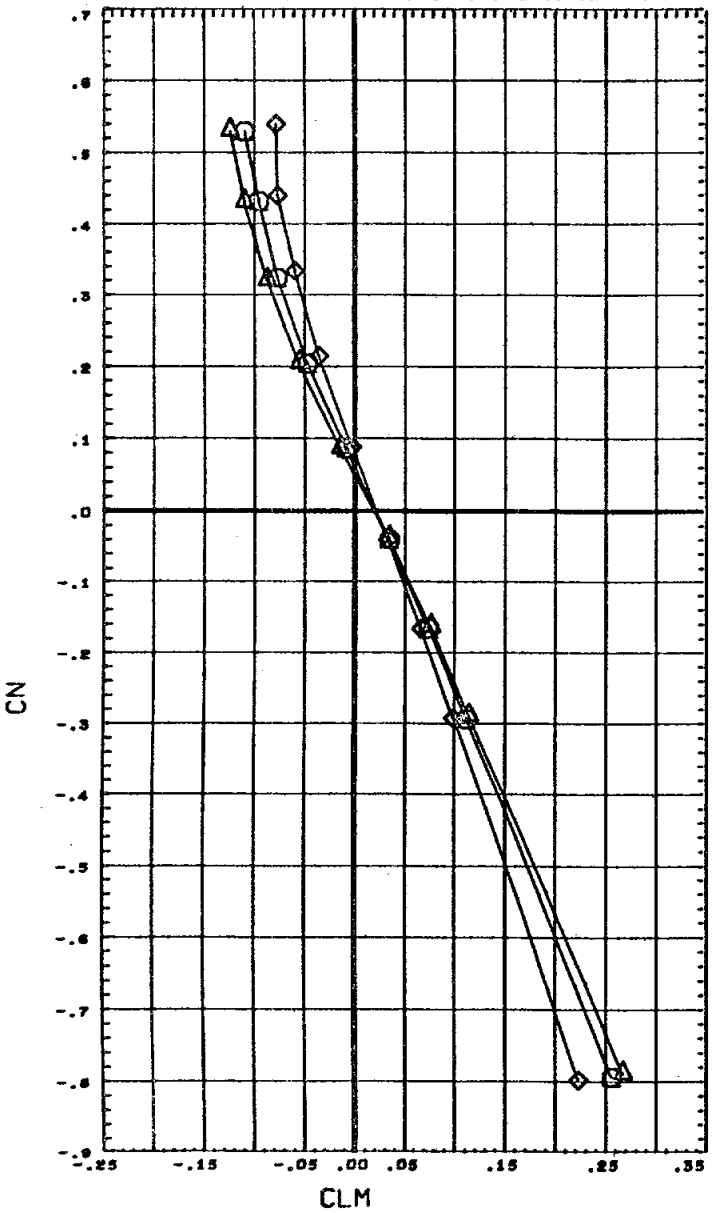
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(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

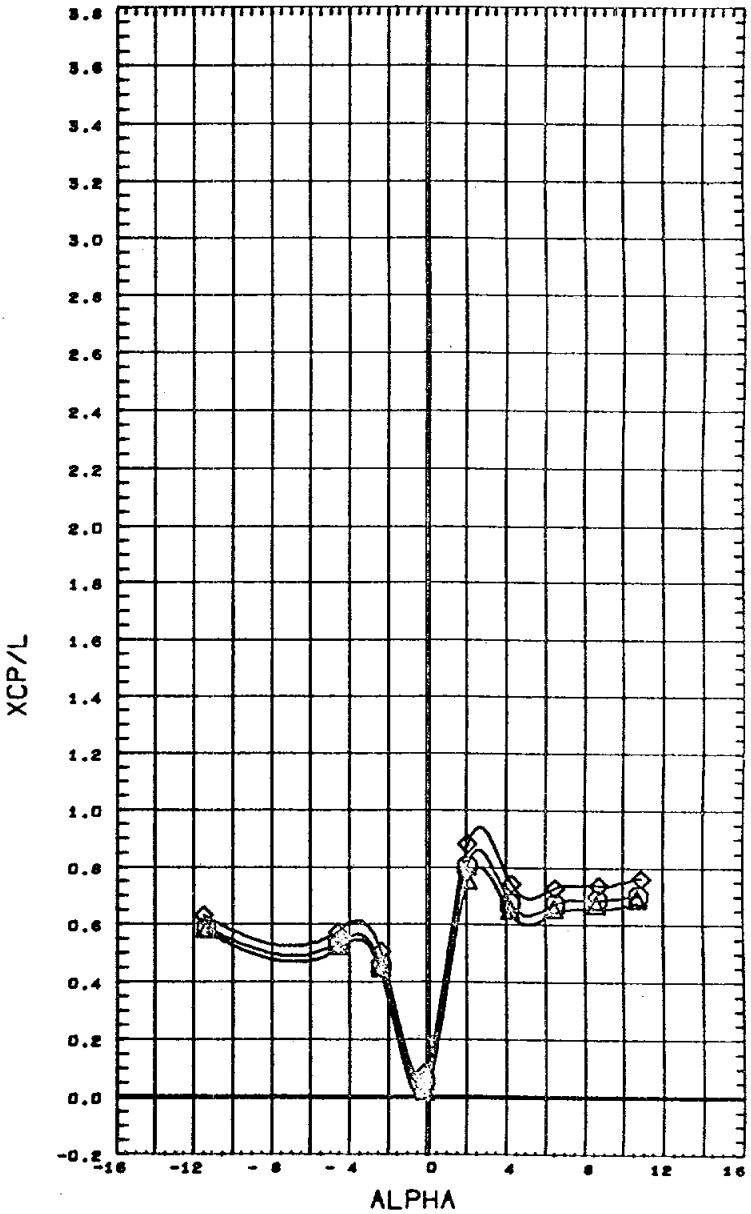
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





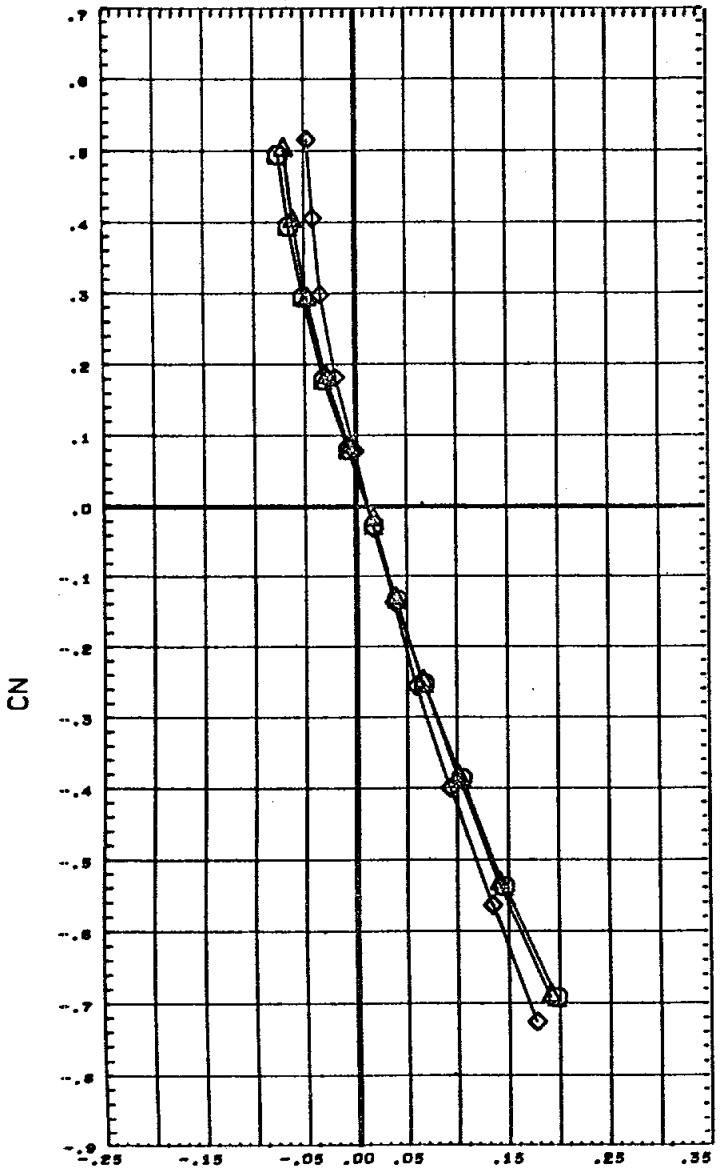
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(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

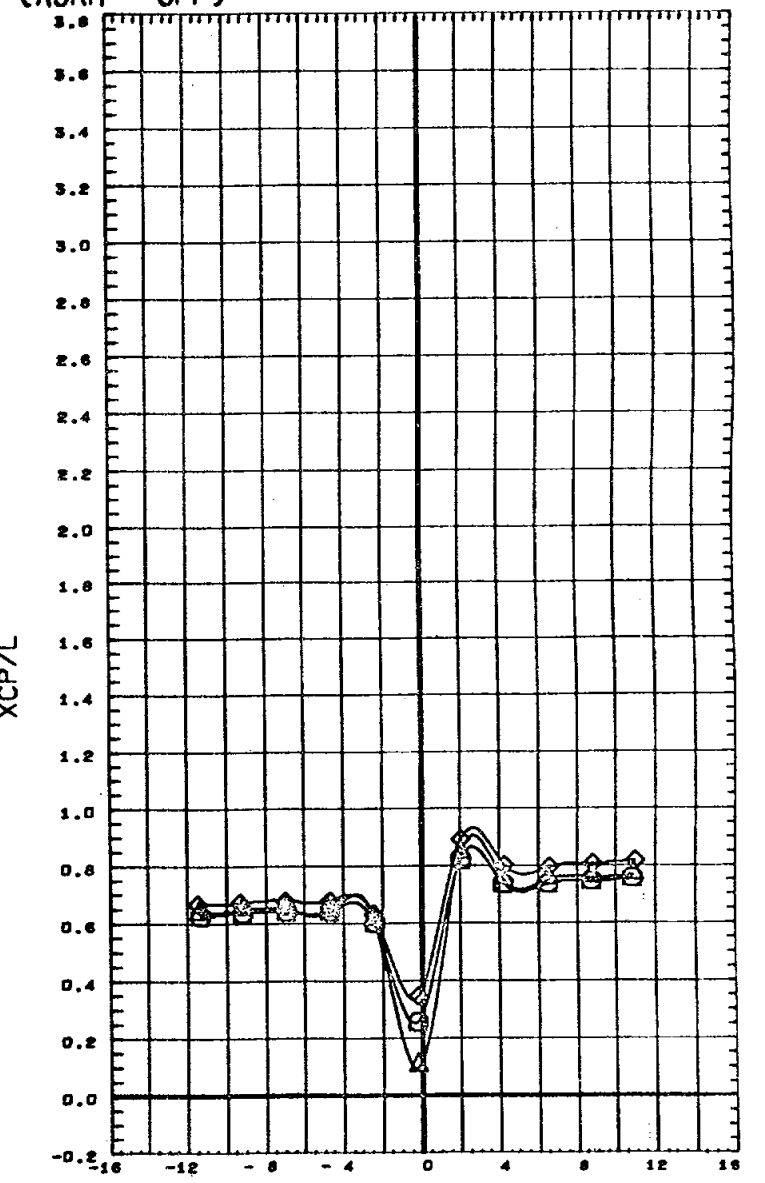
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





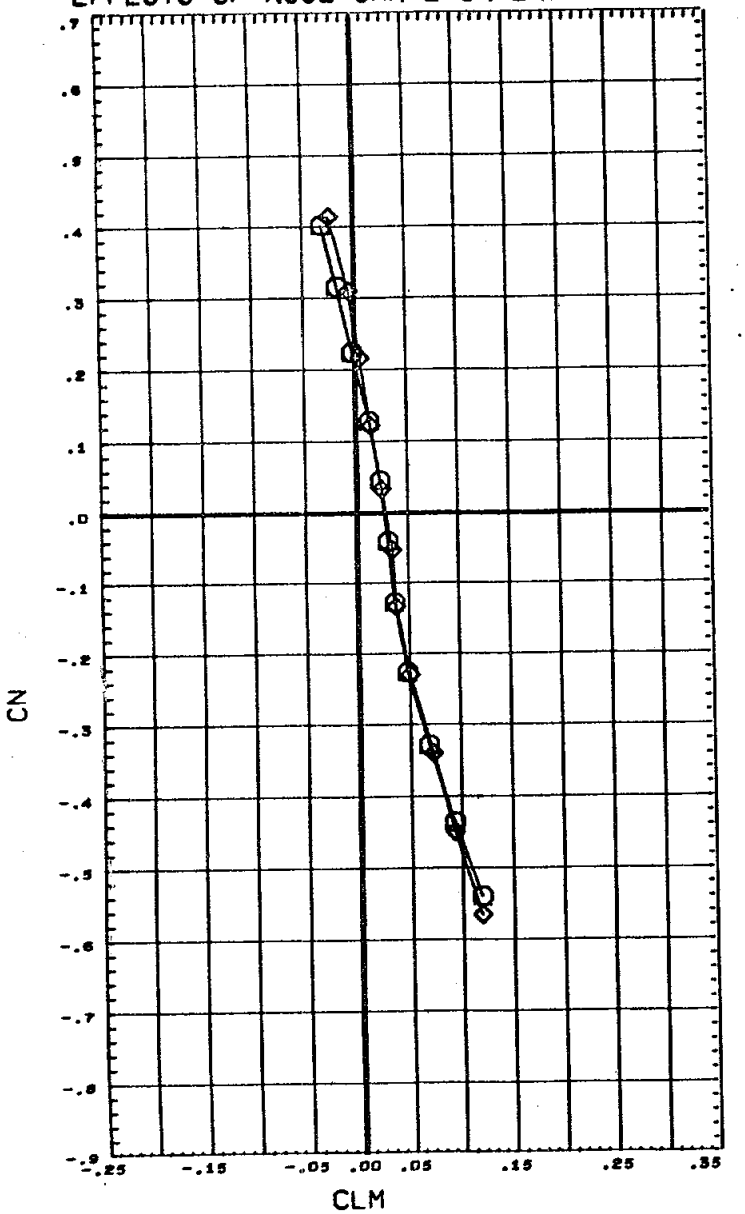
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	⧖	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

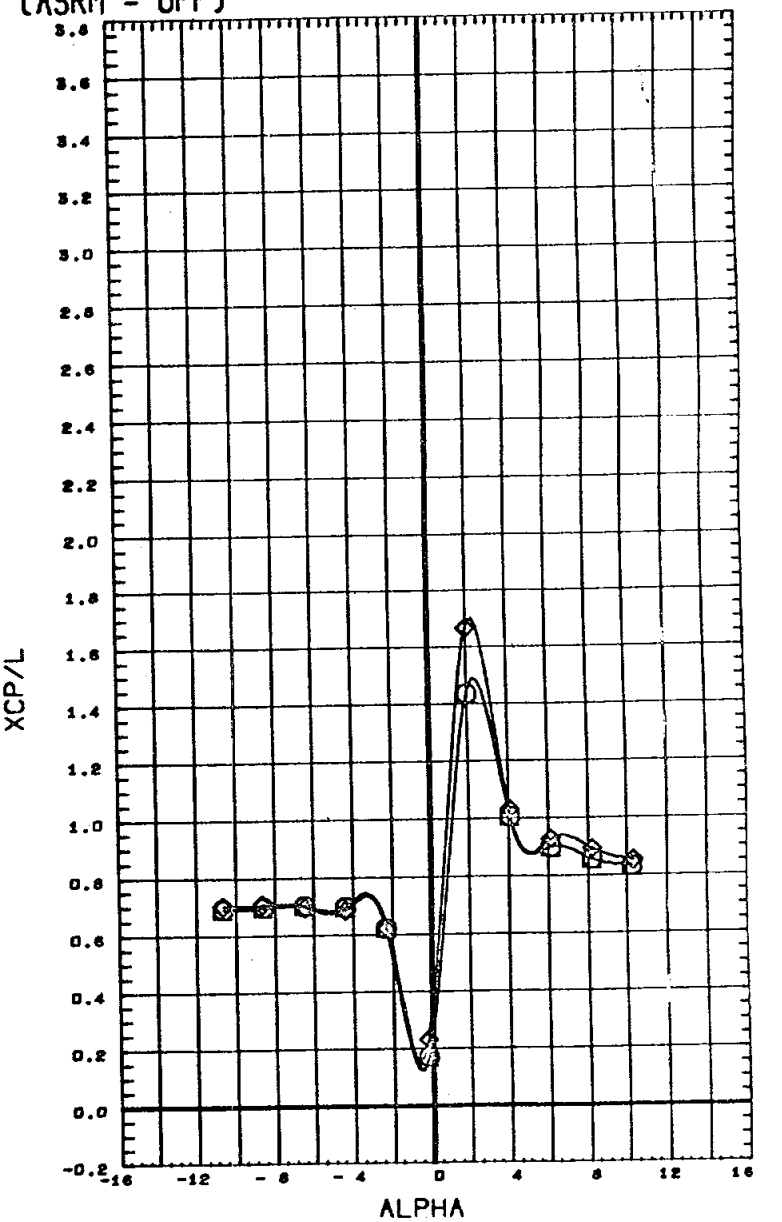
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





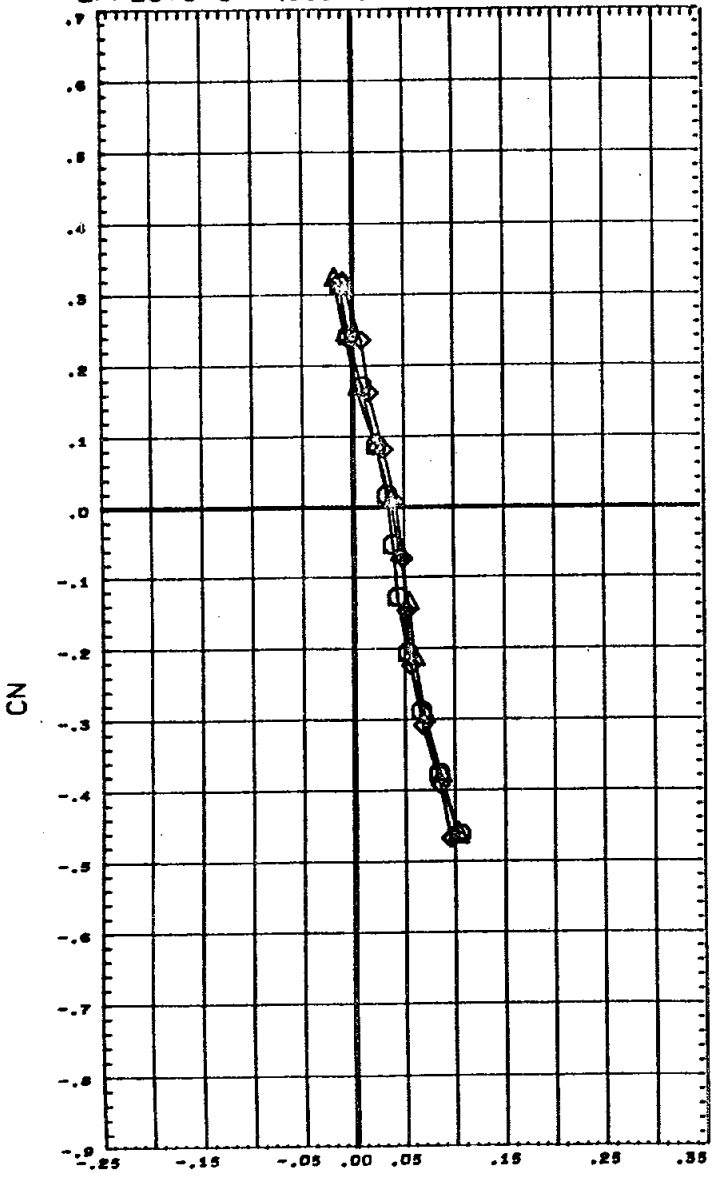
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

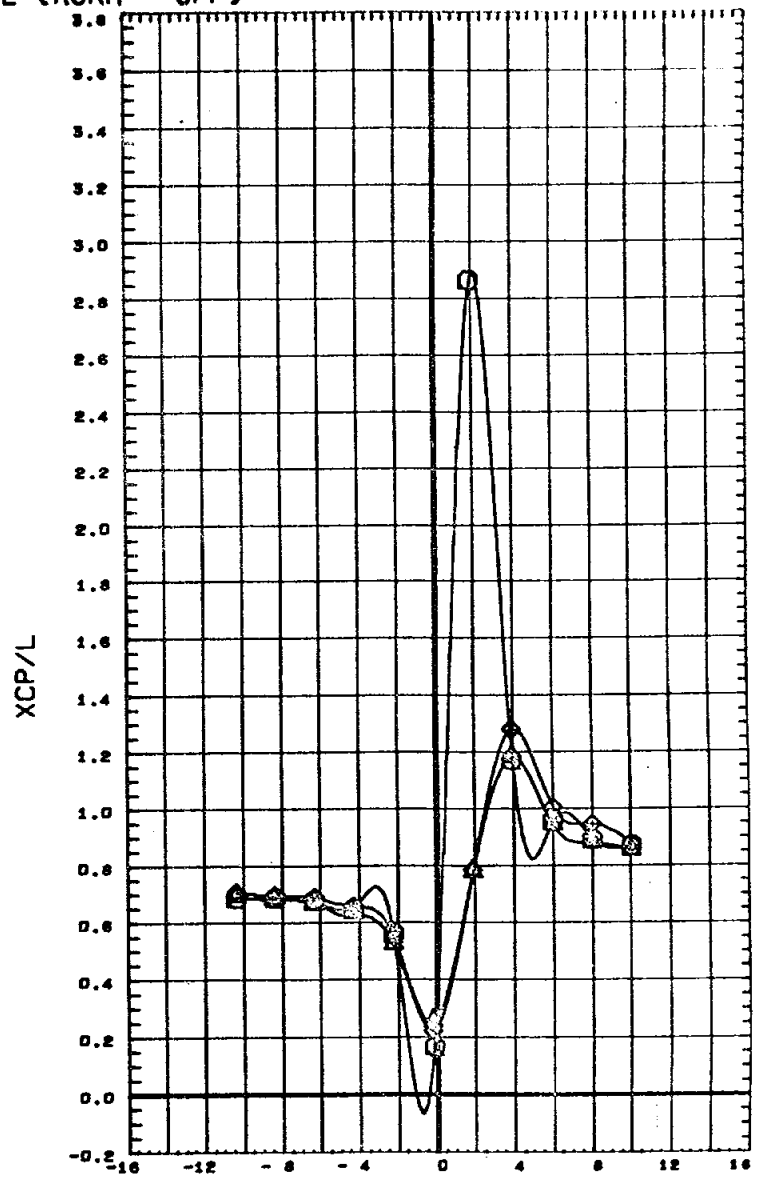
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





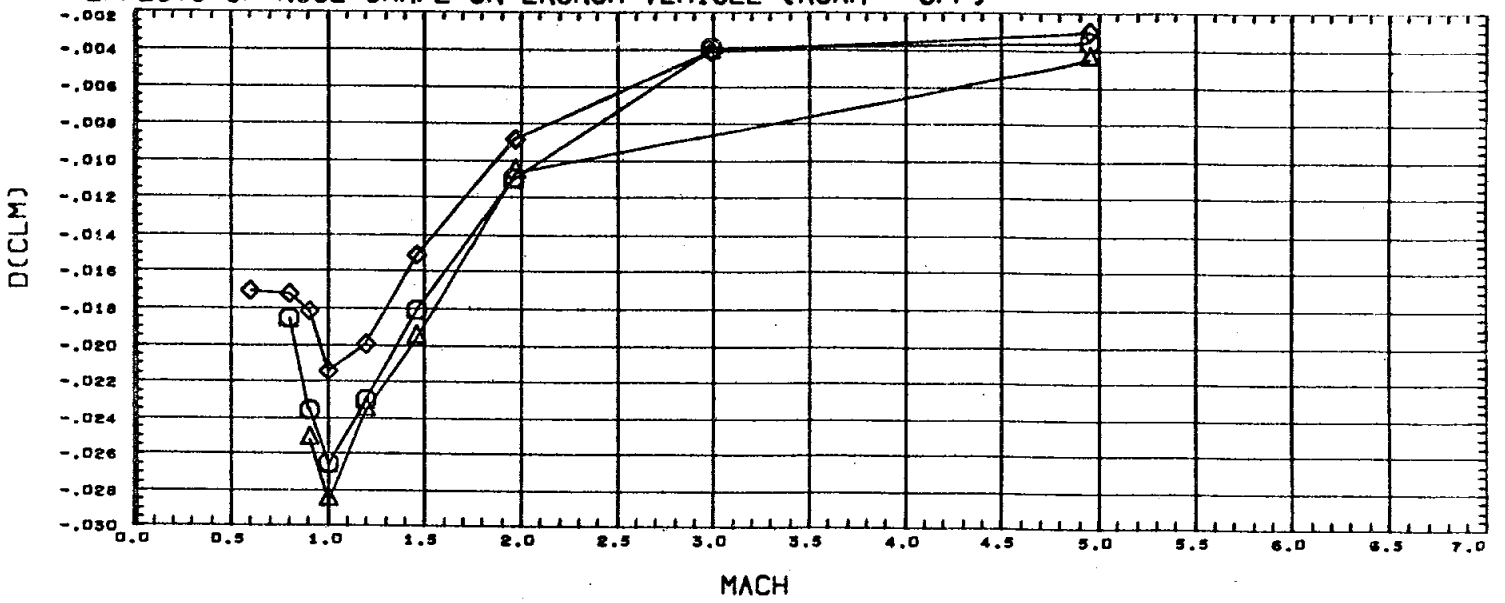
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

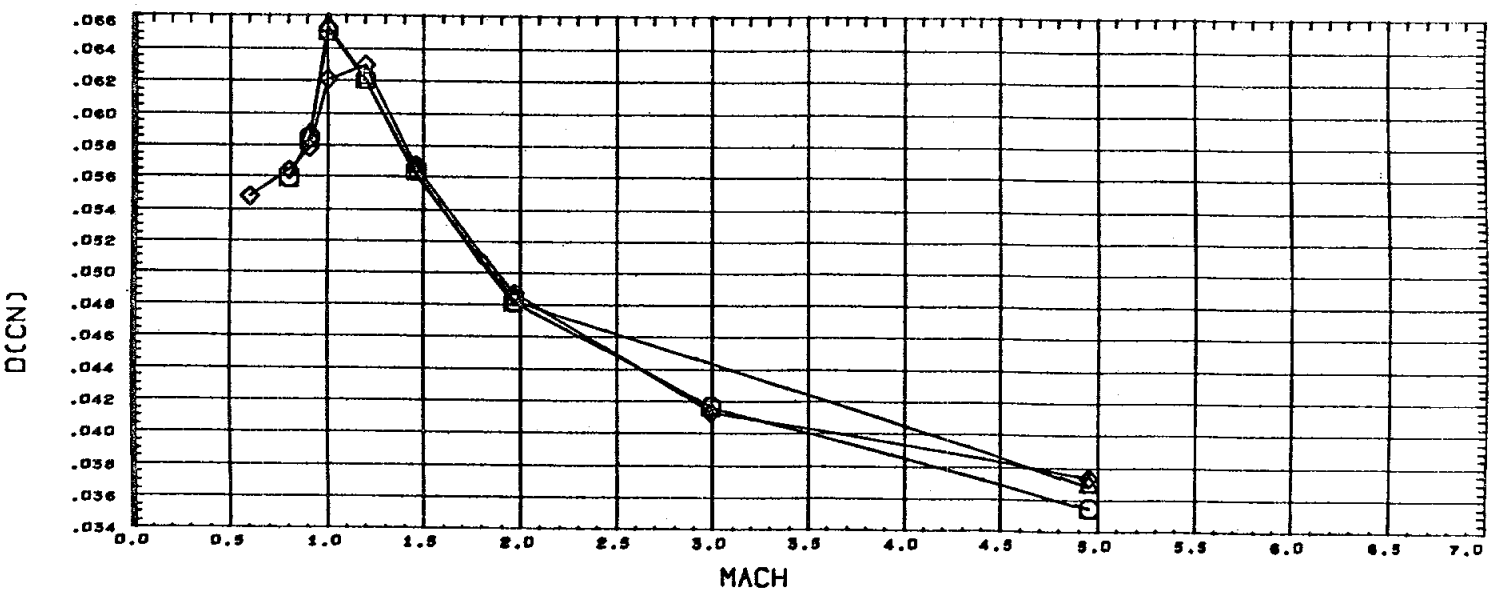
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)



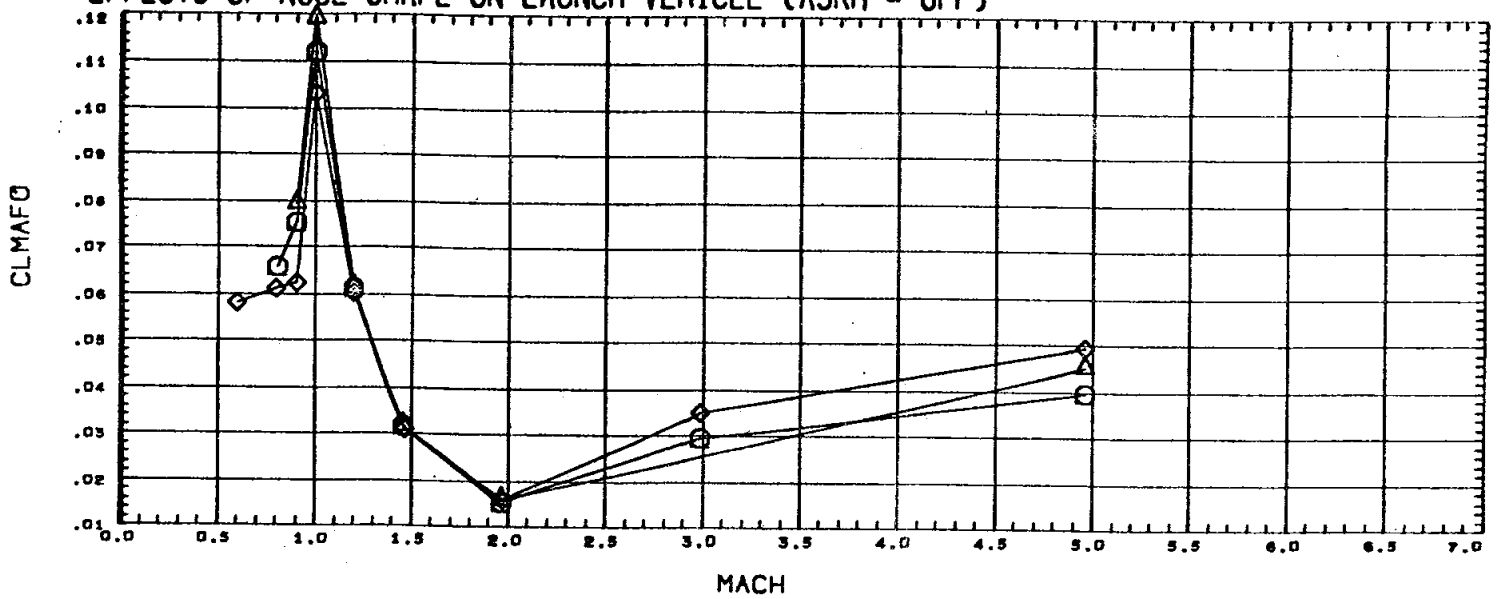


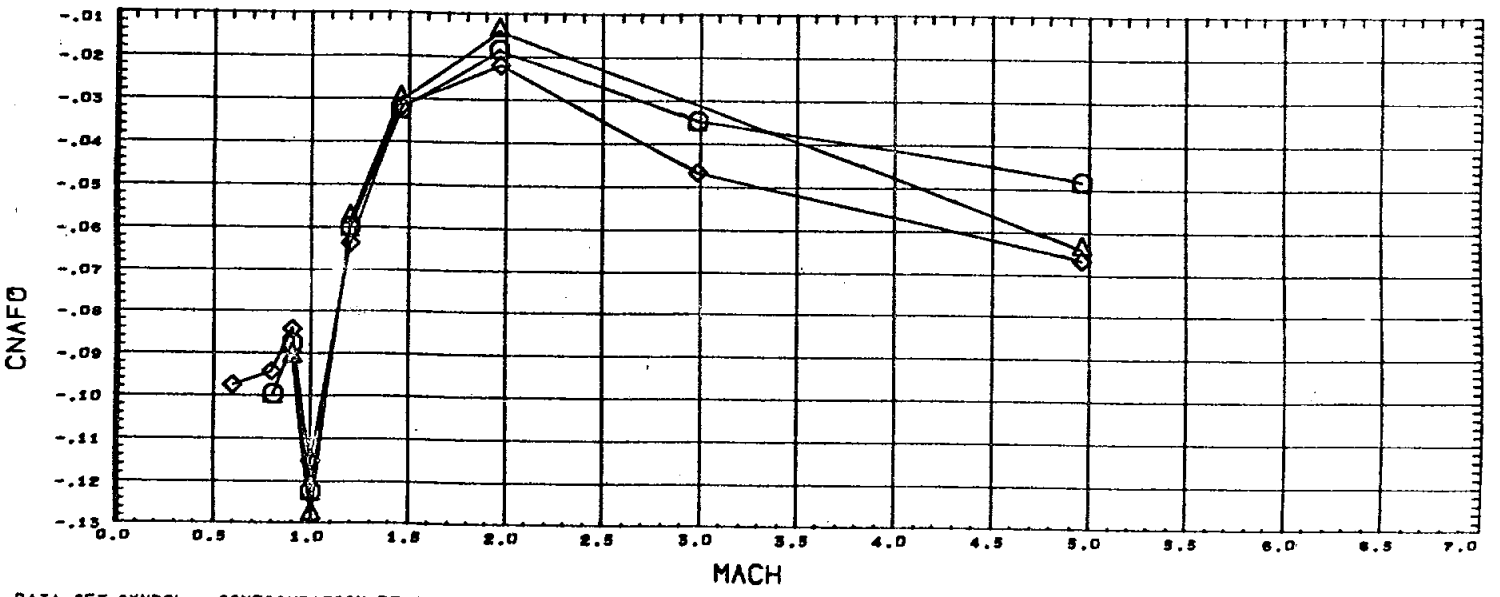
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(677006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)



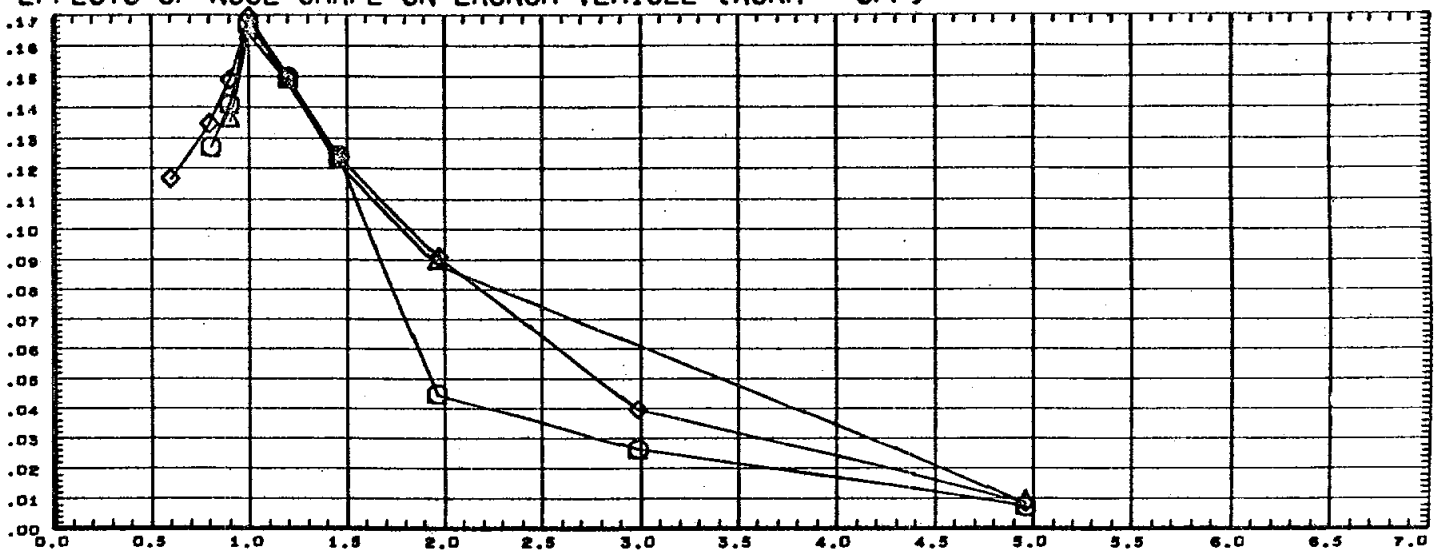


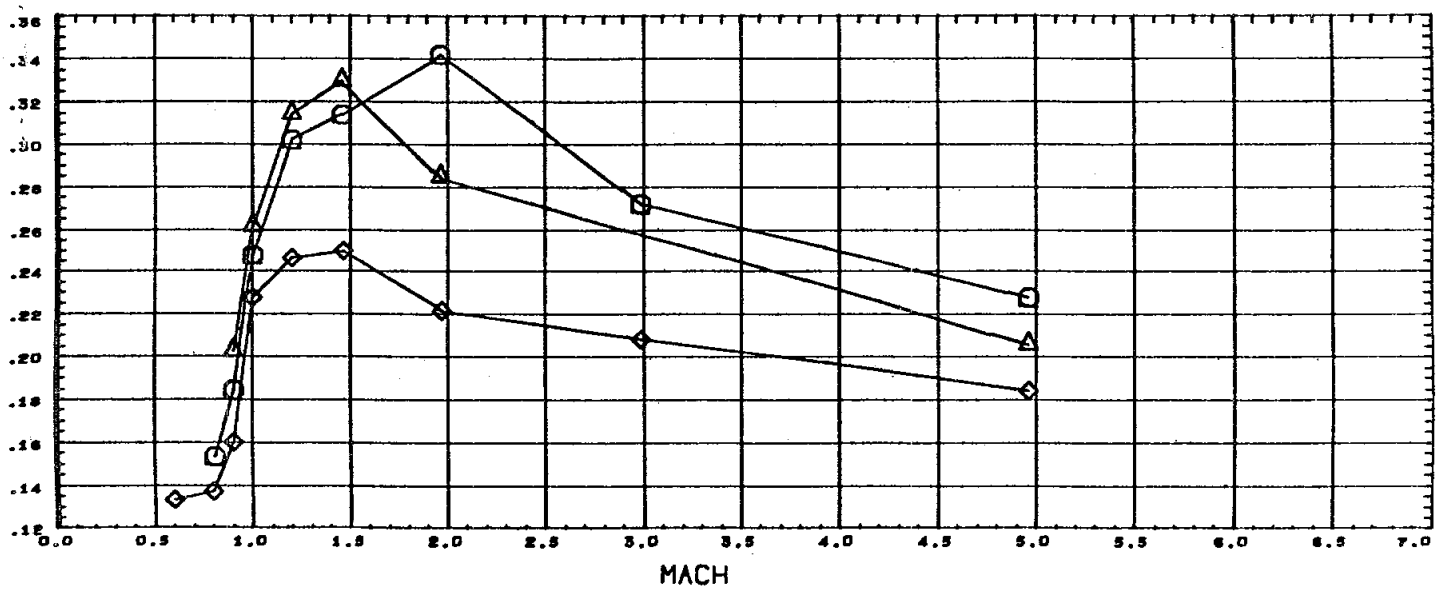
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)

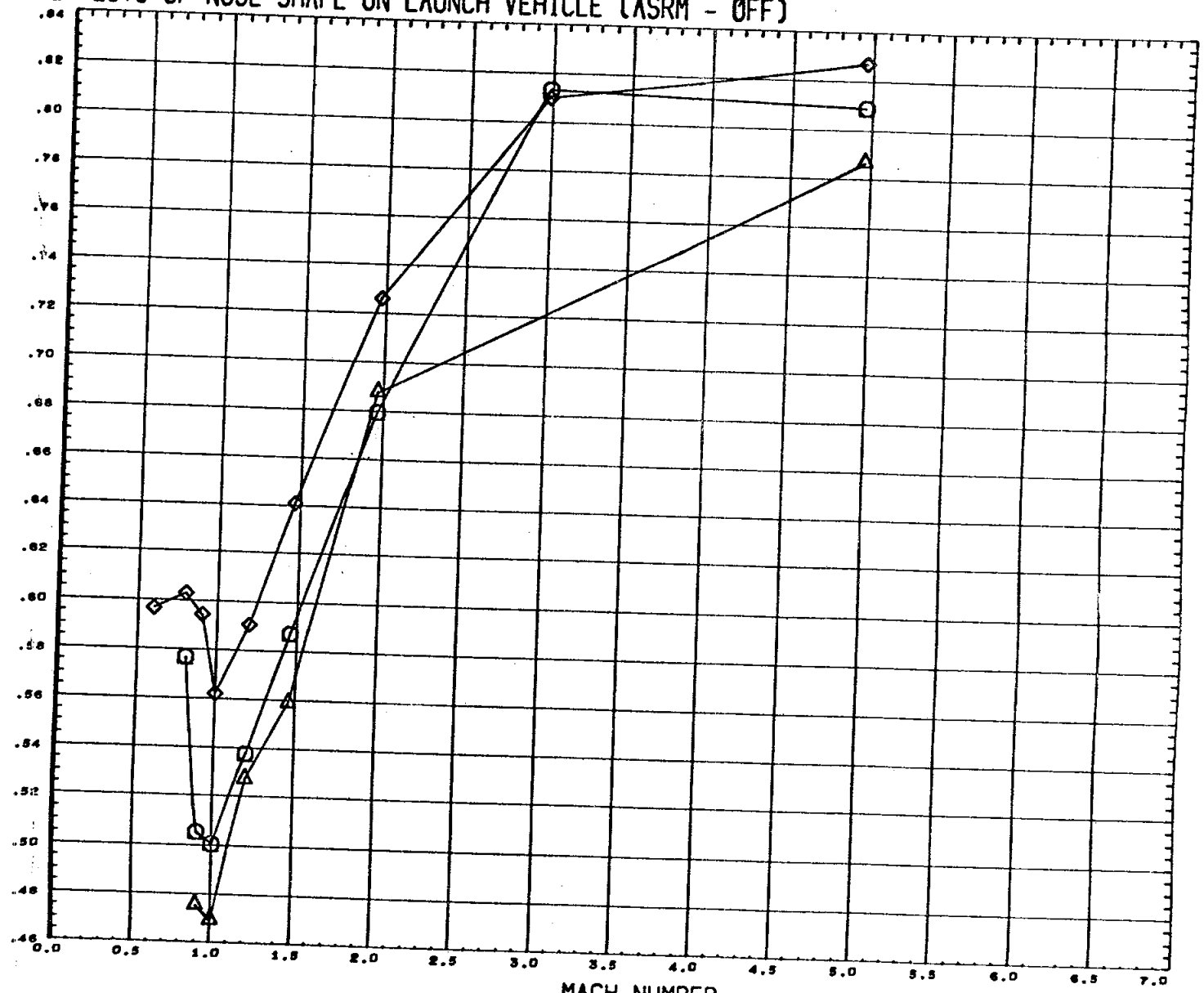




DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)	80.000	0.000	0.000	0.000
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)

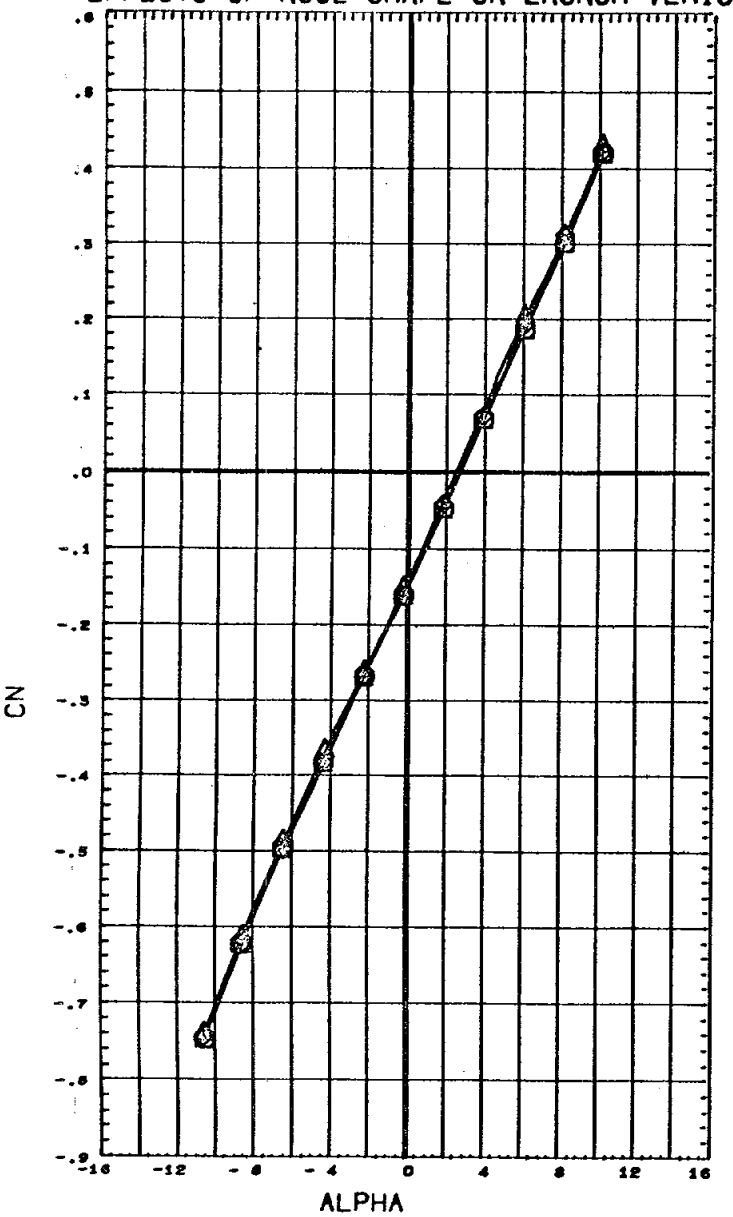


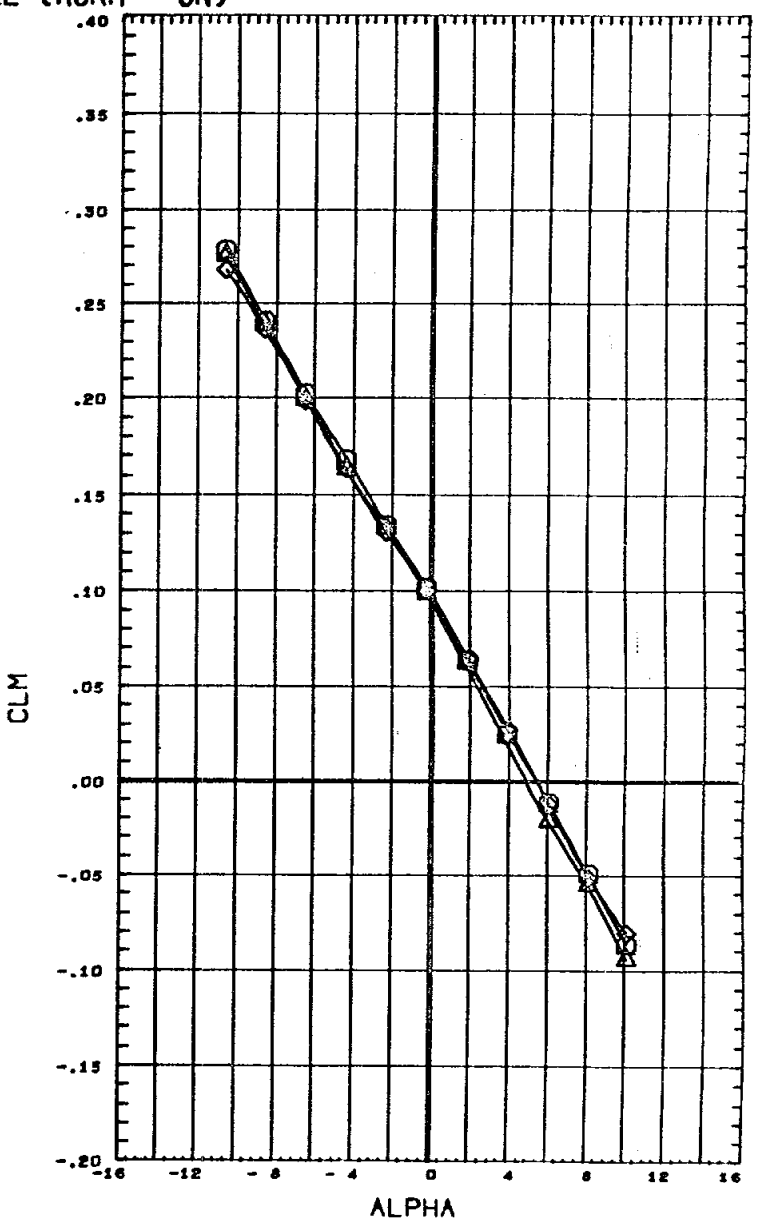
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77010)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(G77006)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





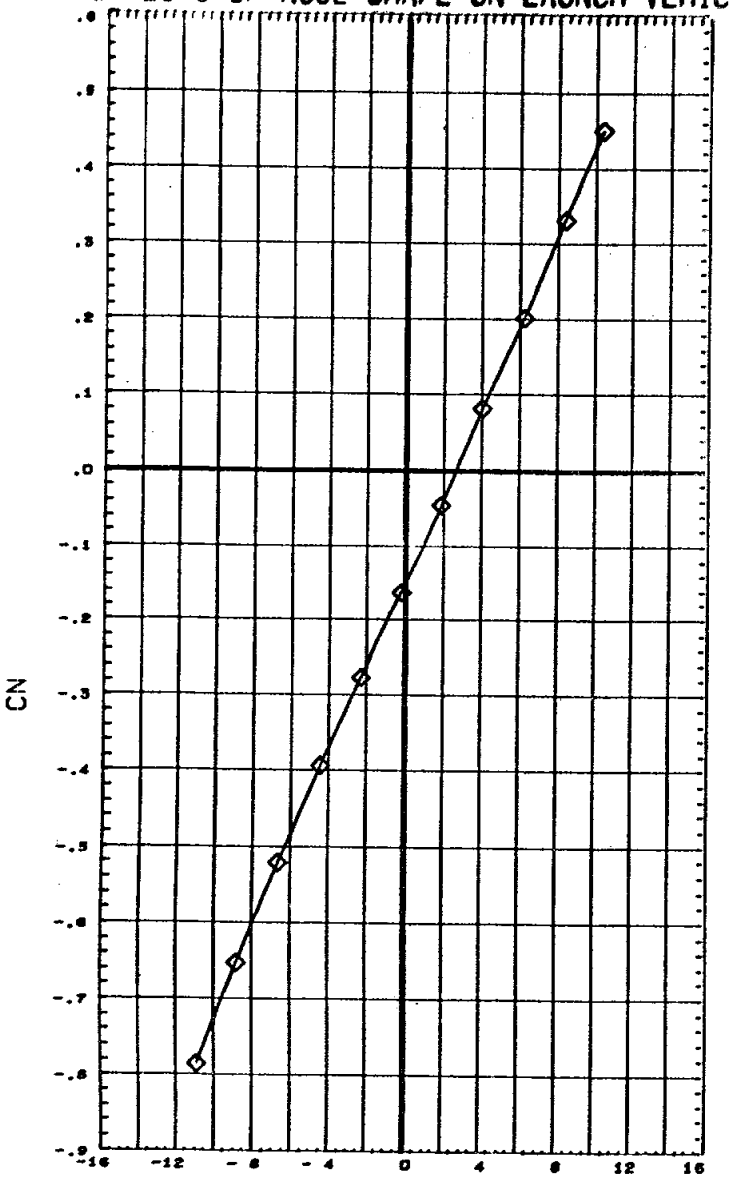
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

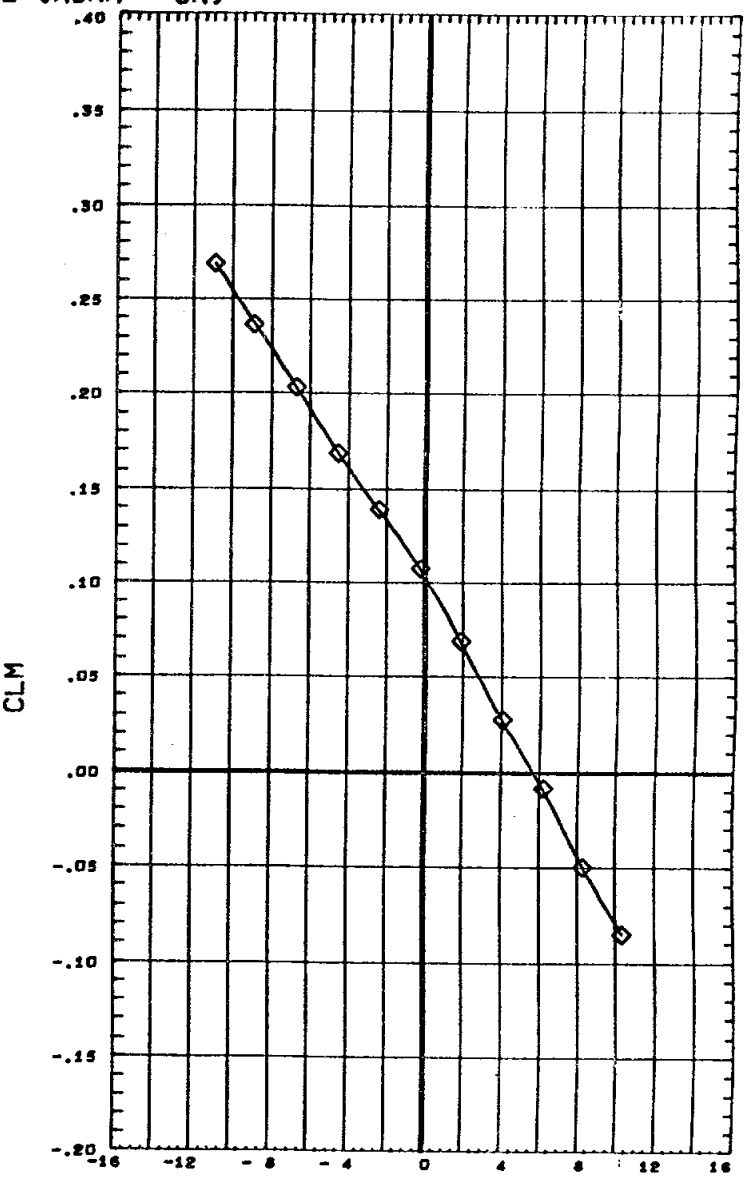
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





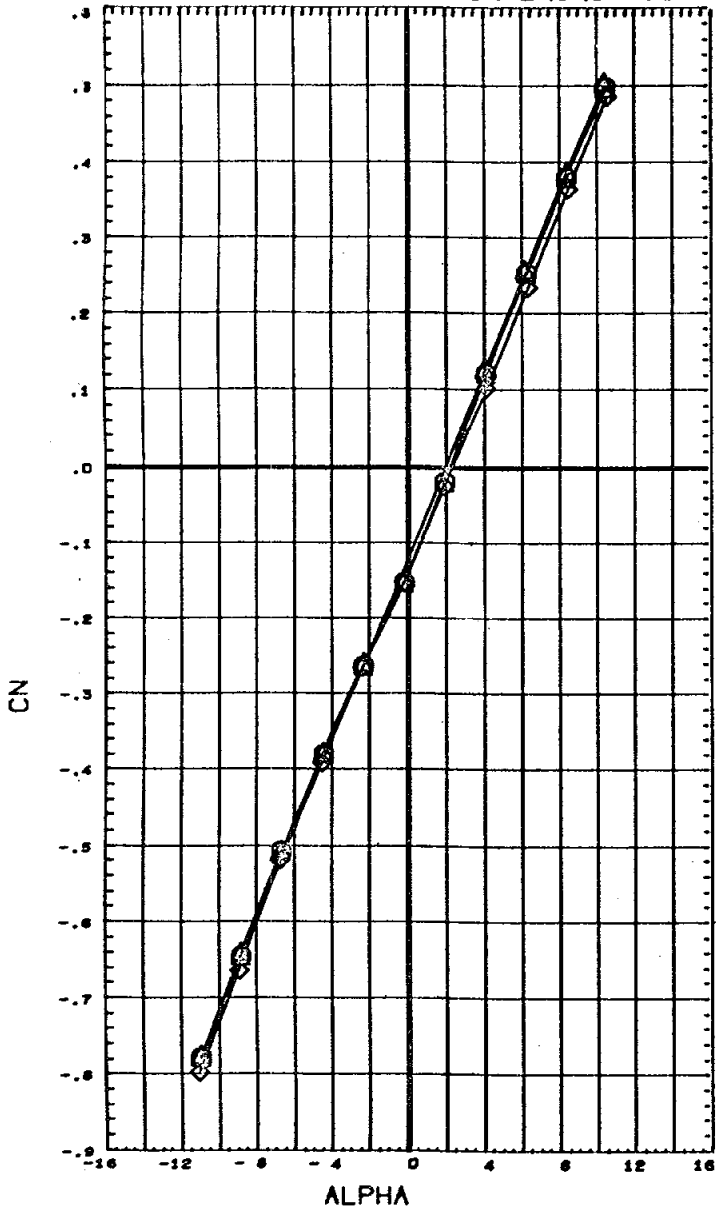
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677016)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677012)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677008)	◇	M556(IA1) NAR ATP BL LV (02)(T3)(S1)

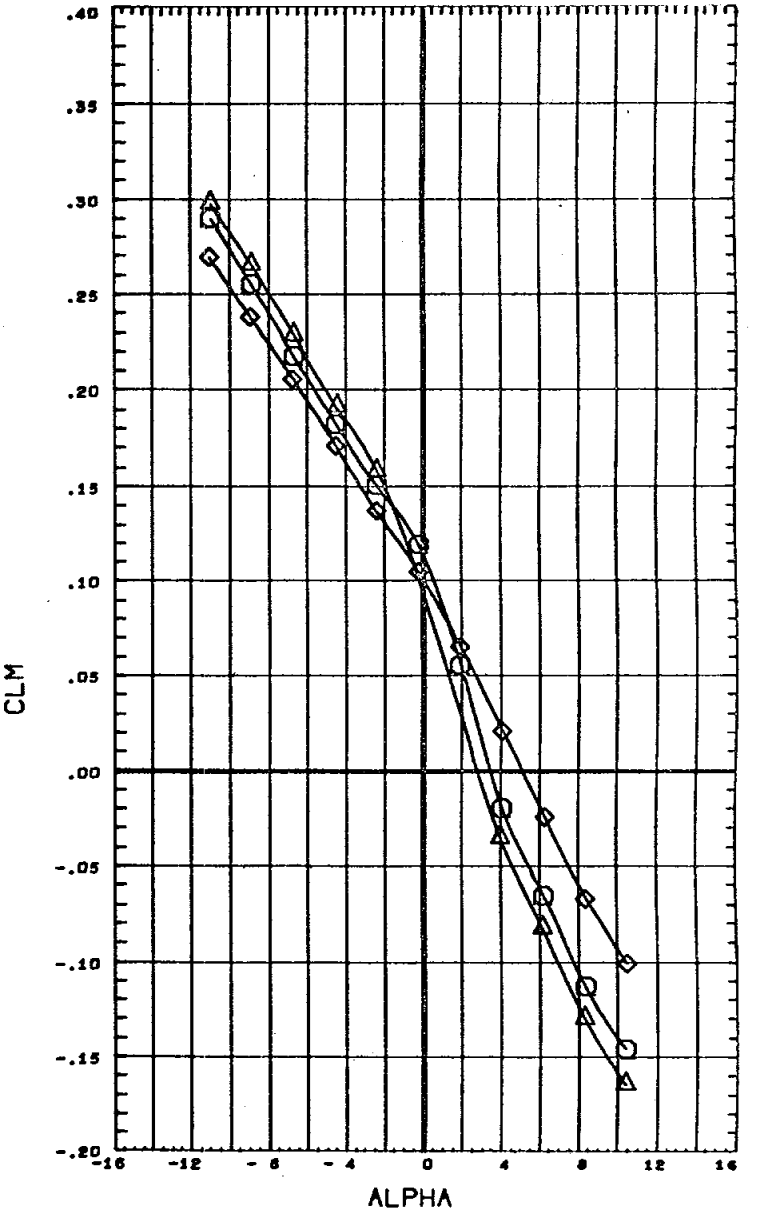
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





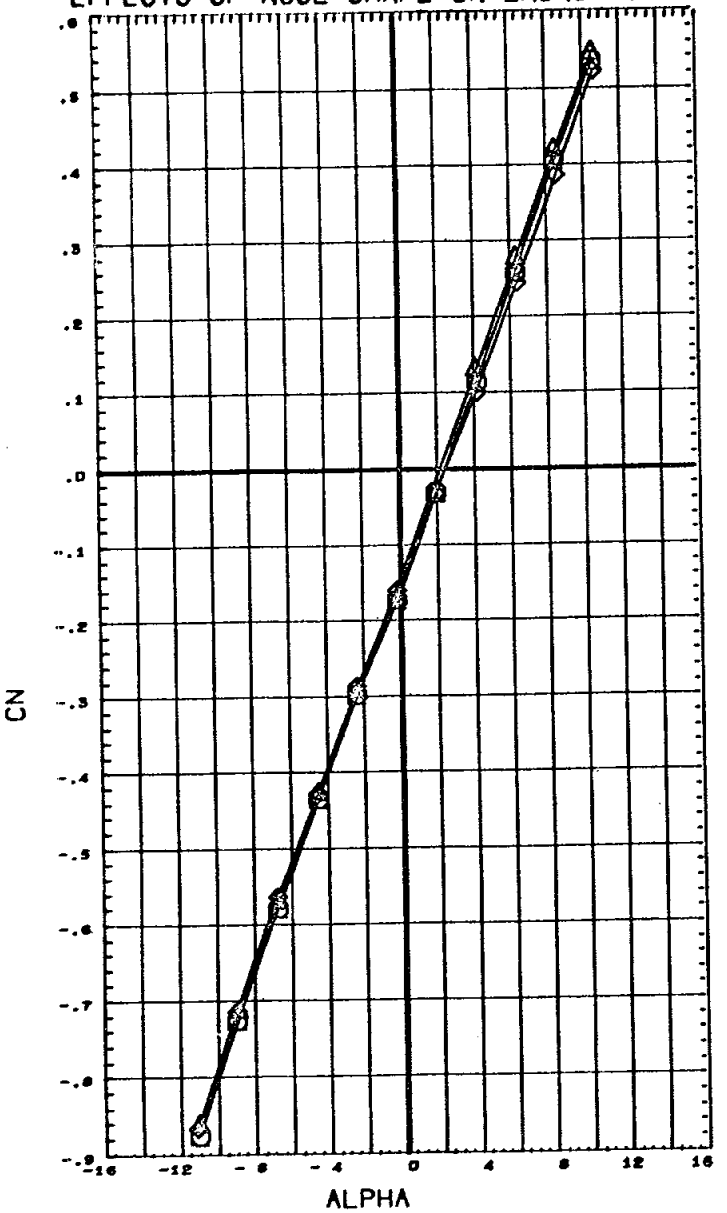
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

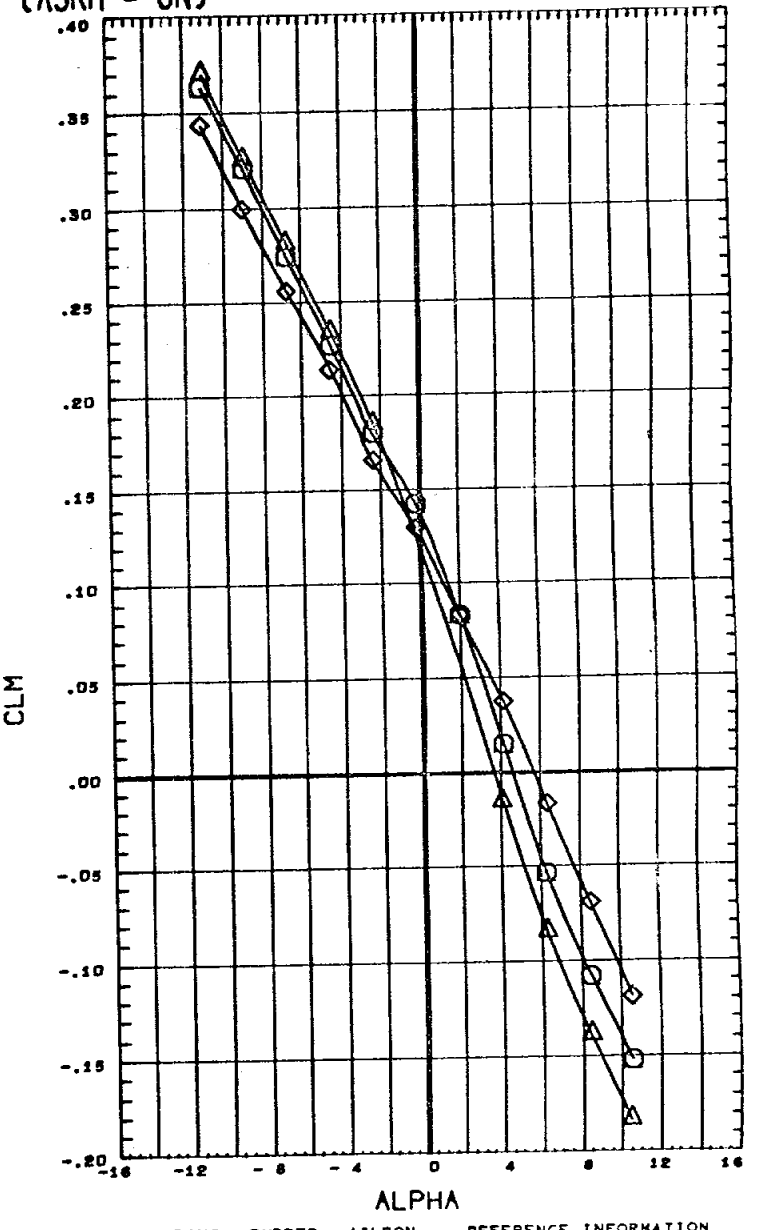
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





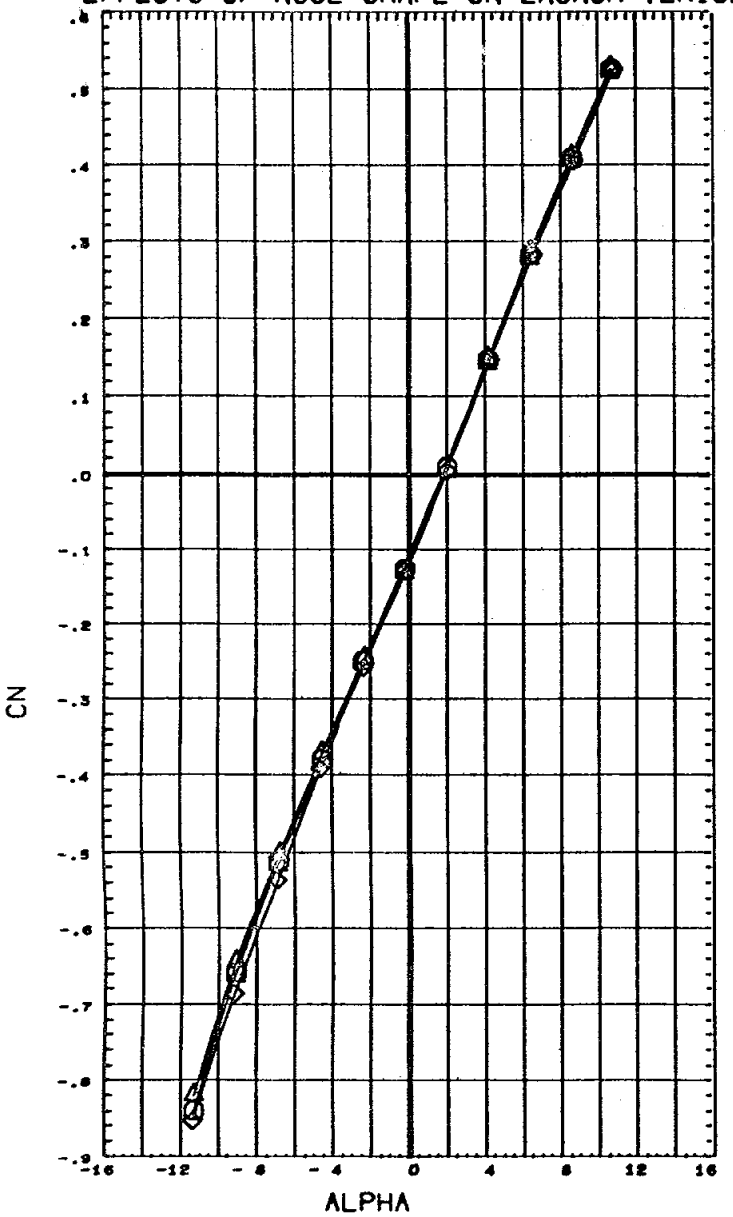
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(677008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

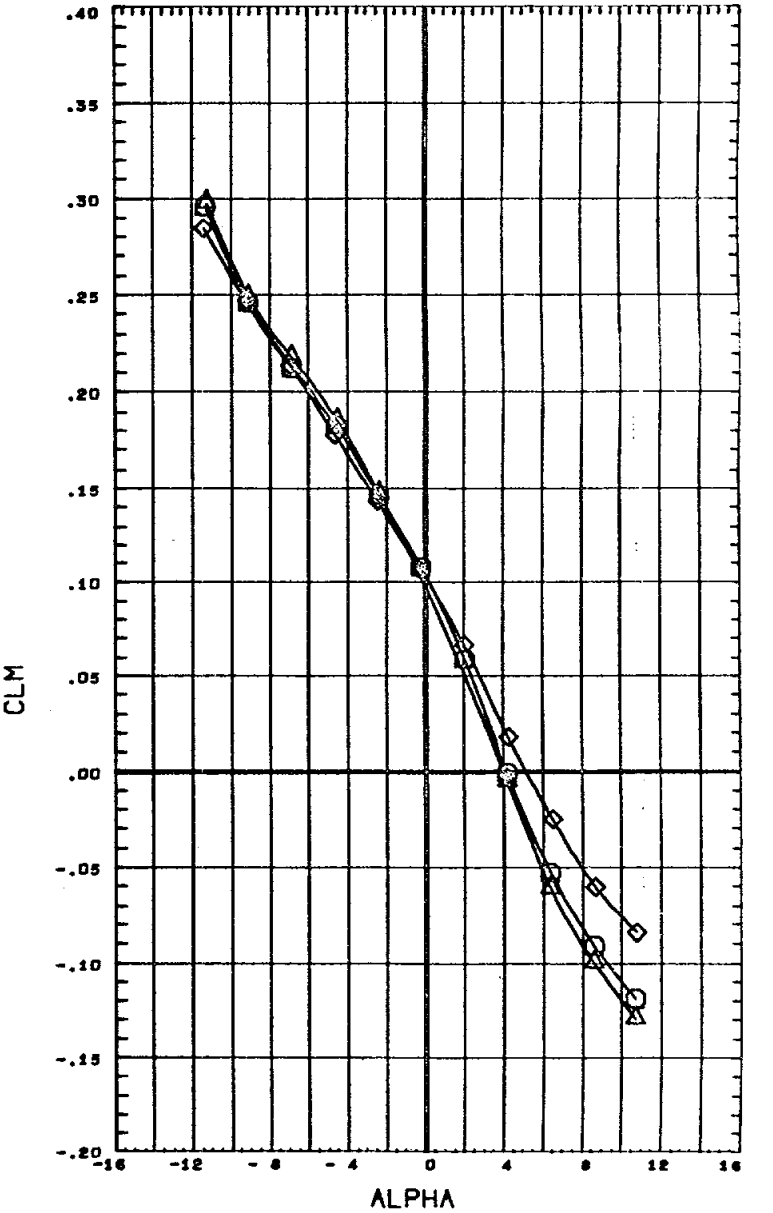
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





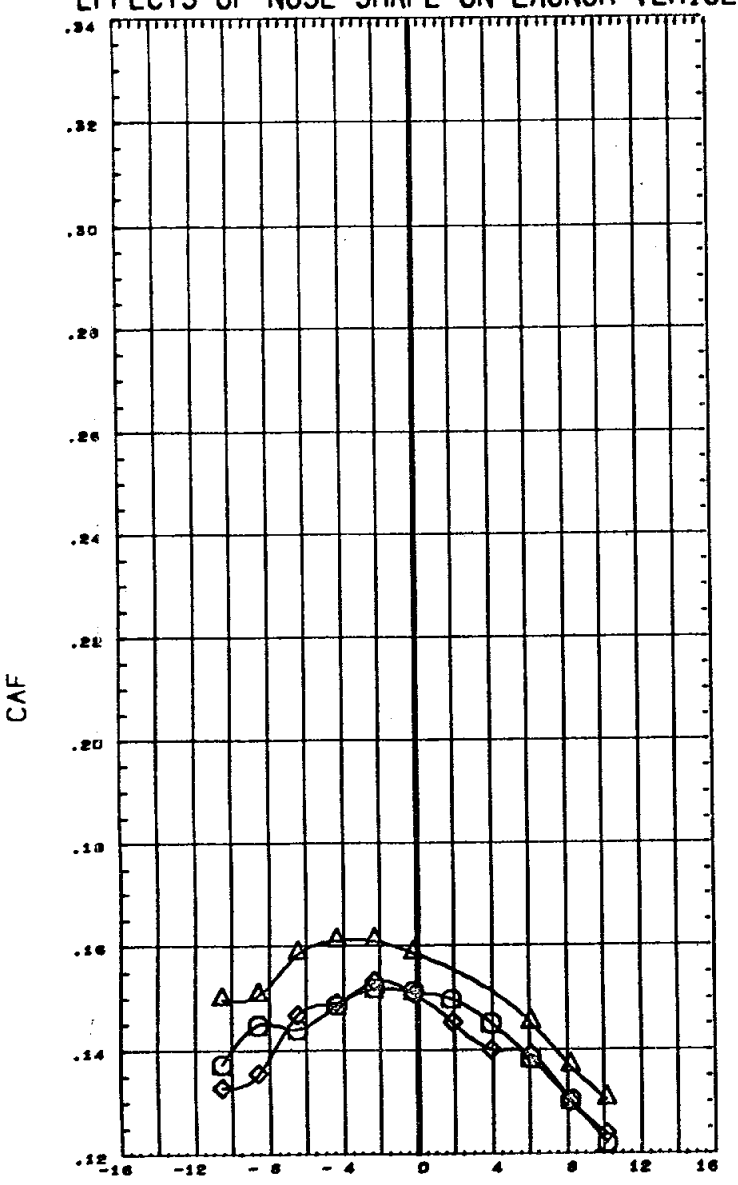
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(677008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

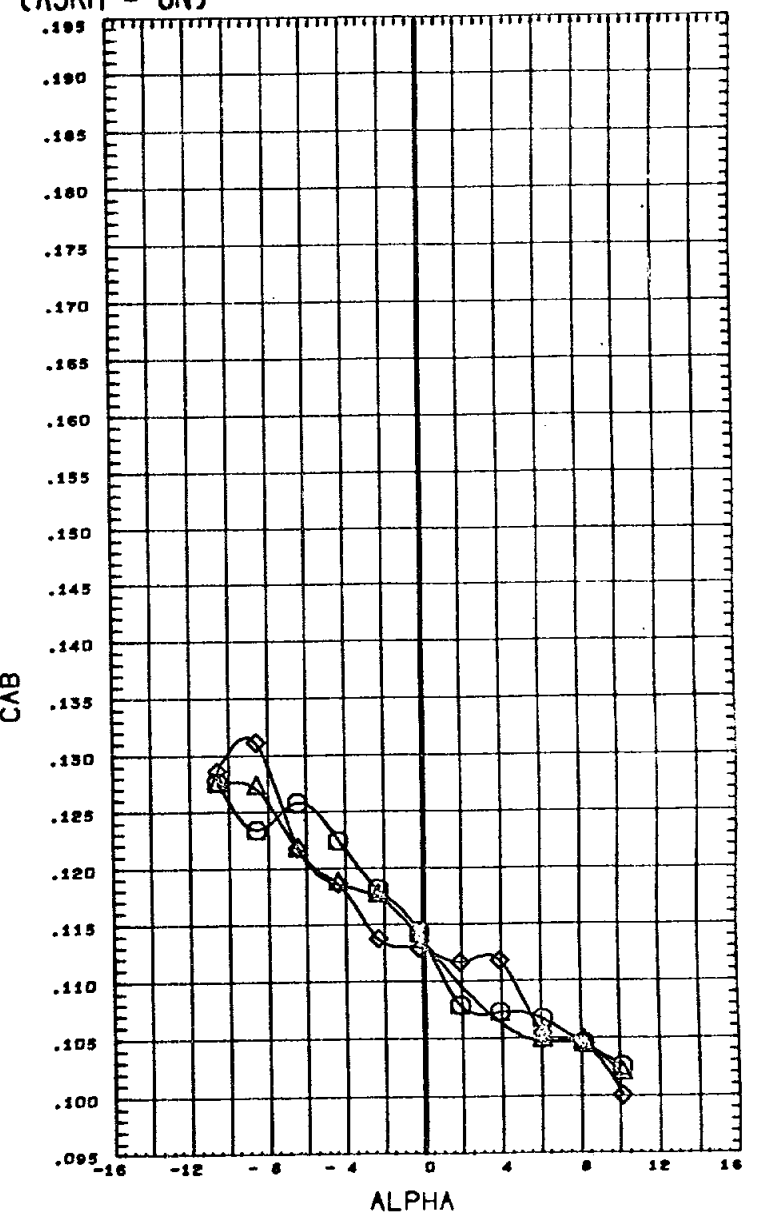
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





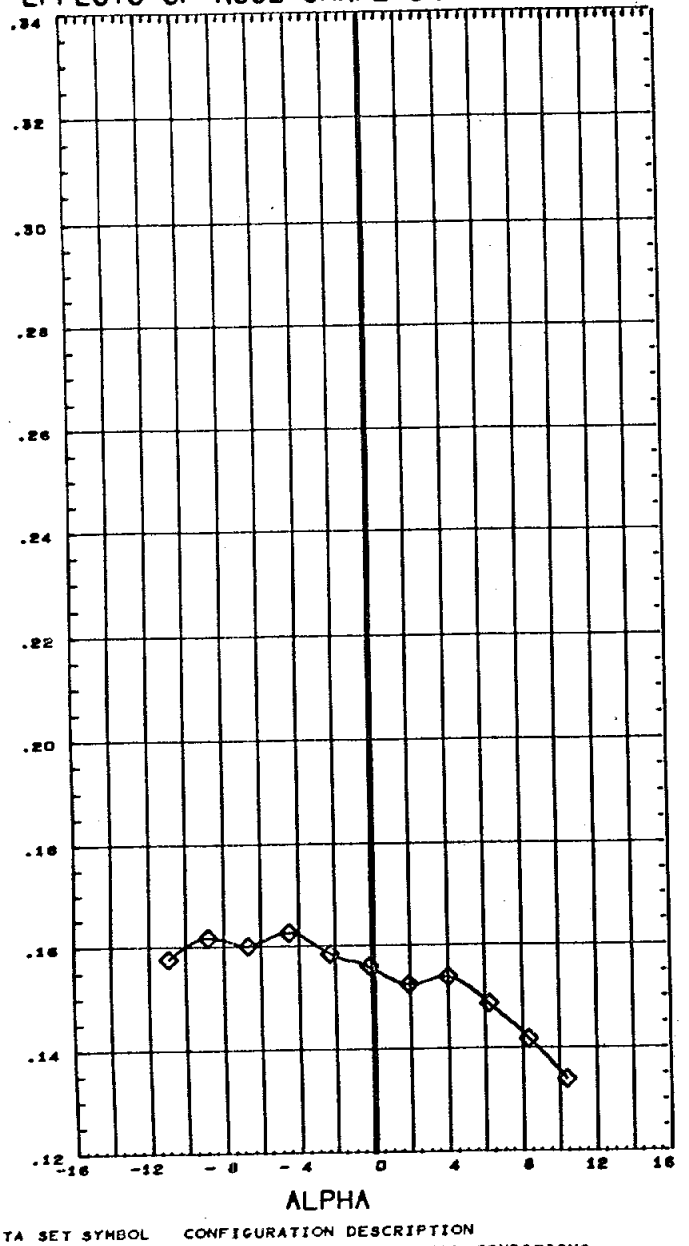
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

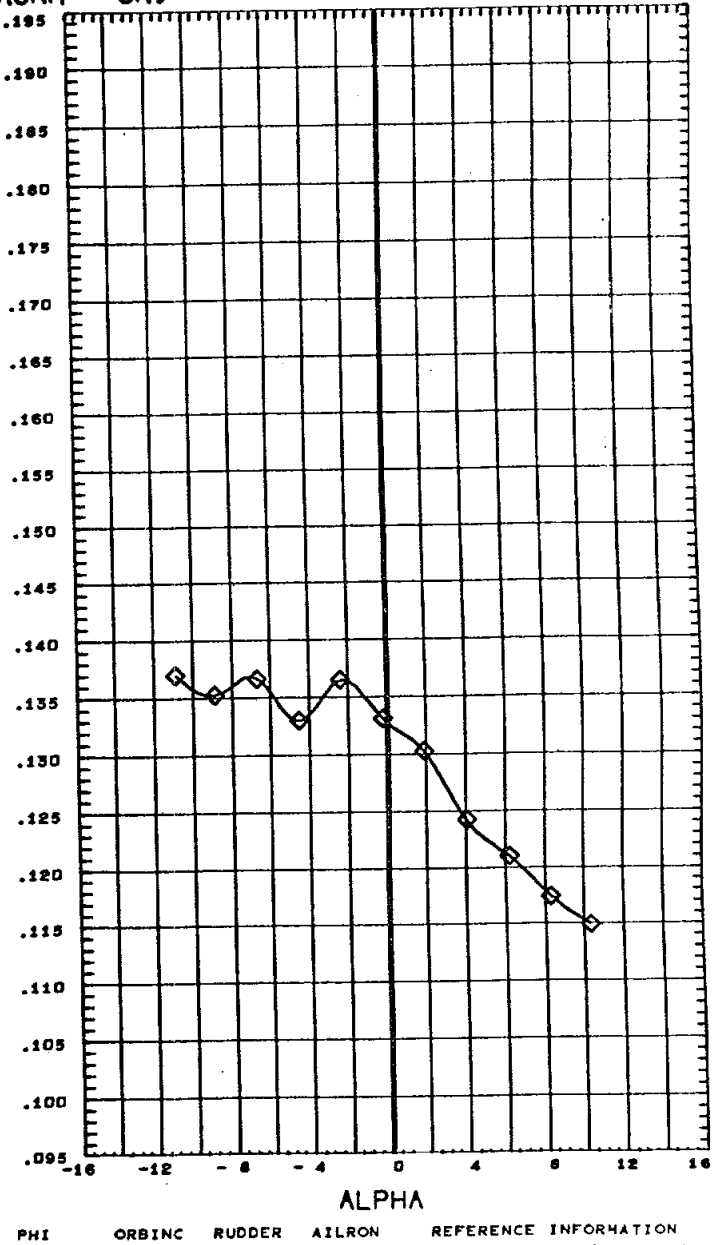
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





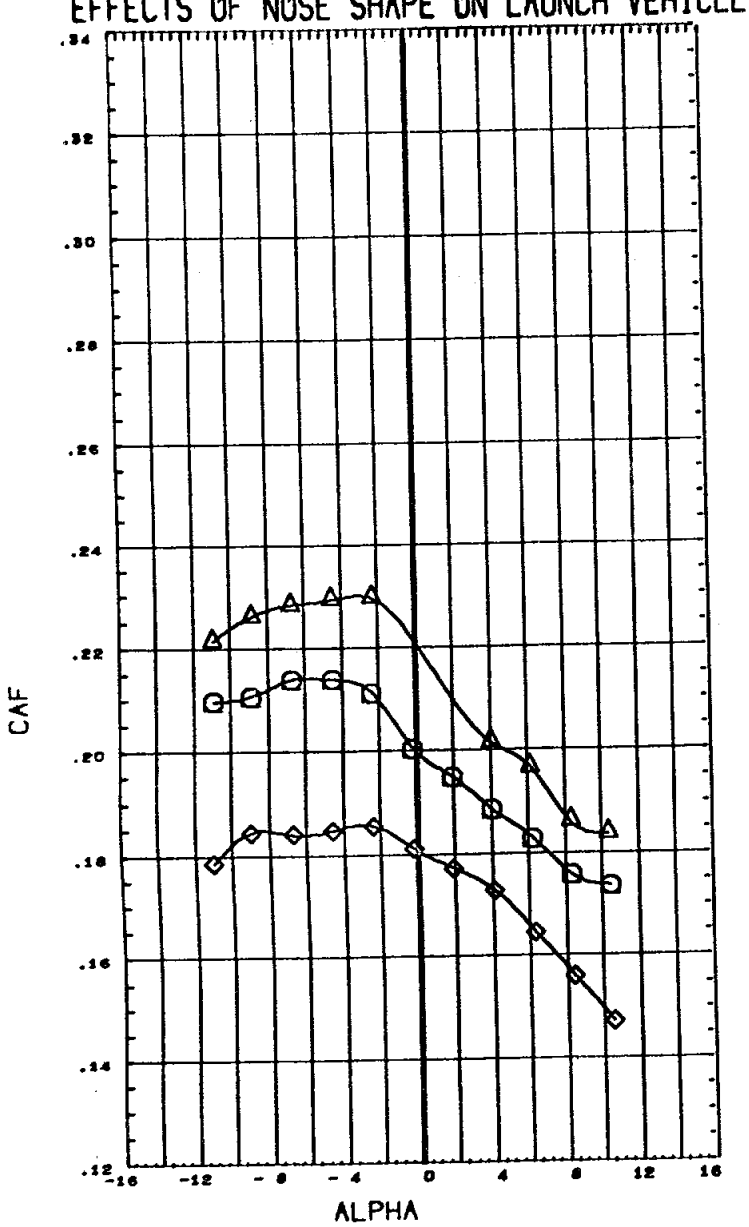
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677016)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677012)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677008)	◇	M556(IA1) NAR ATP BL LV (02)(T3)(S1)

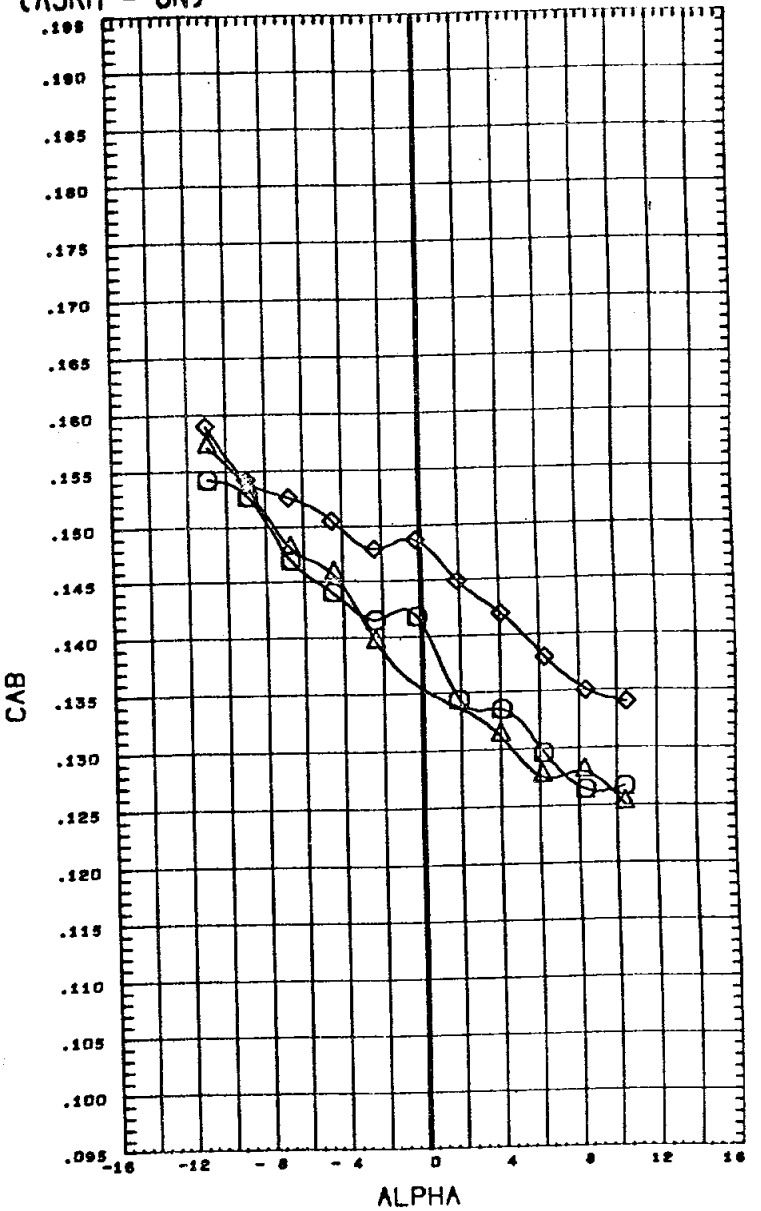
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





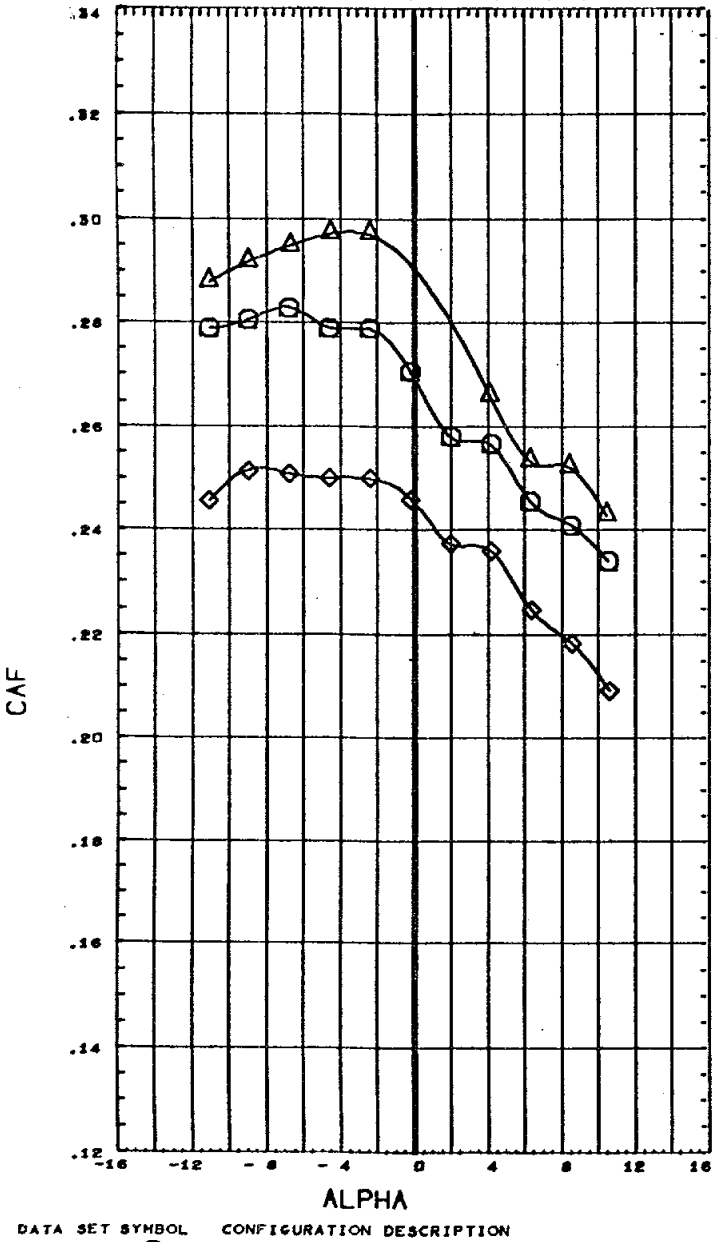
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

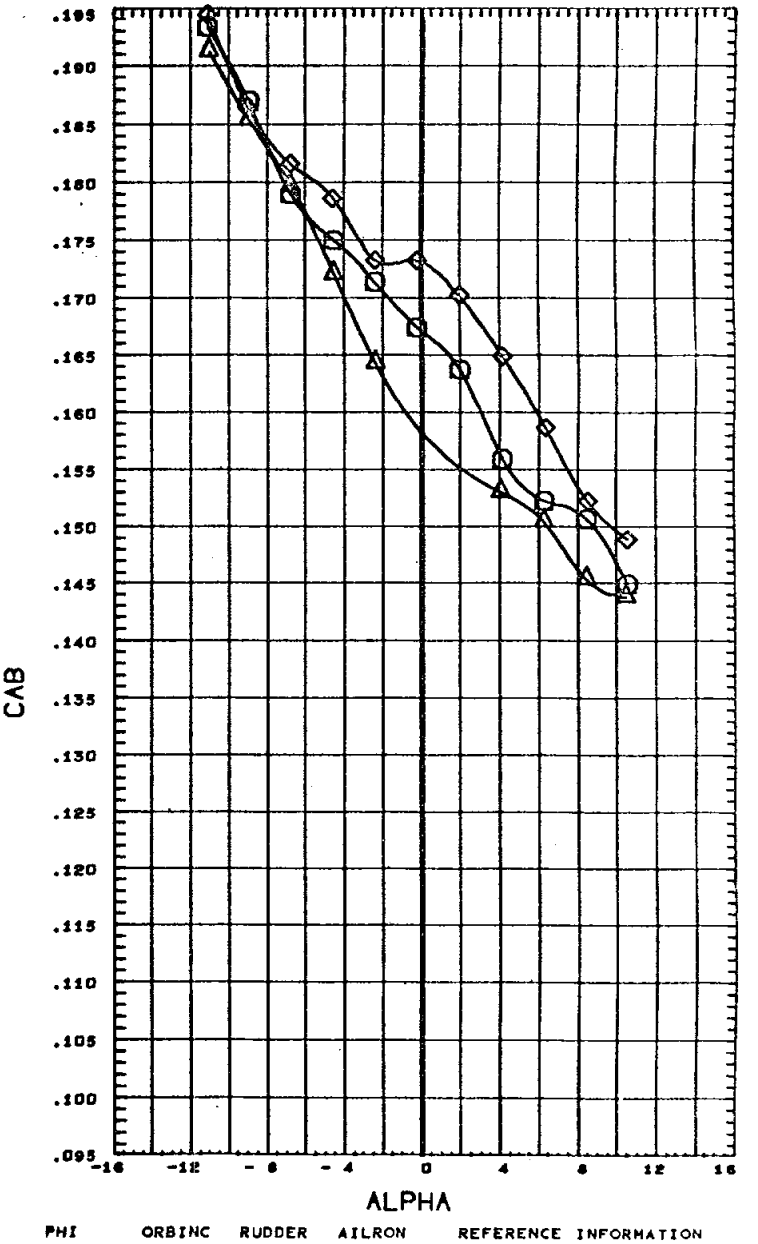
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





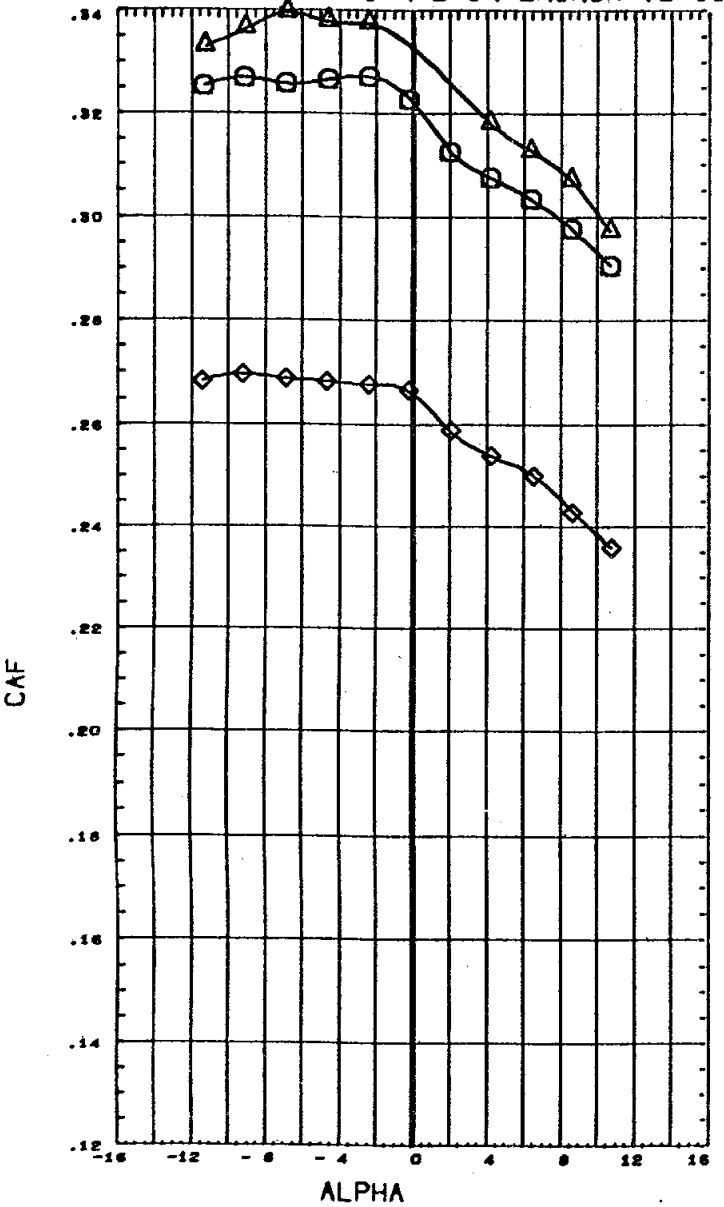
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

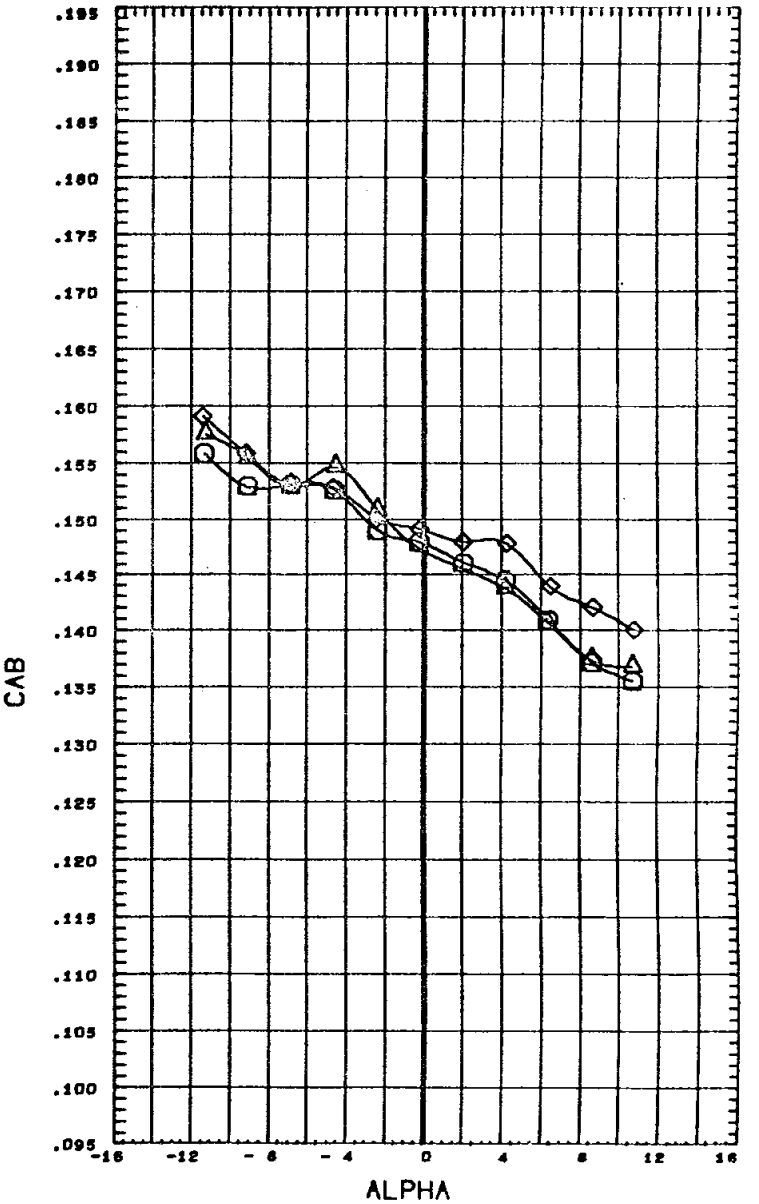
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





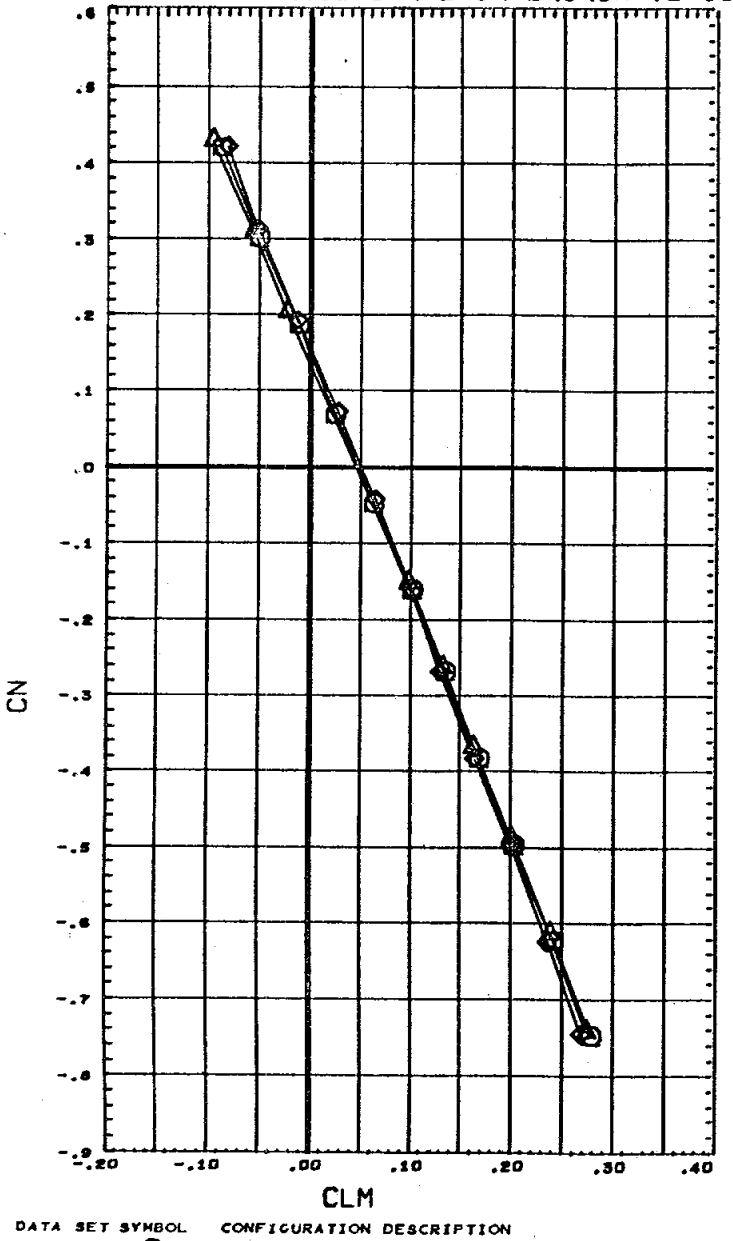
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

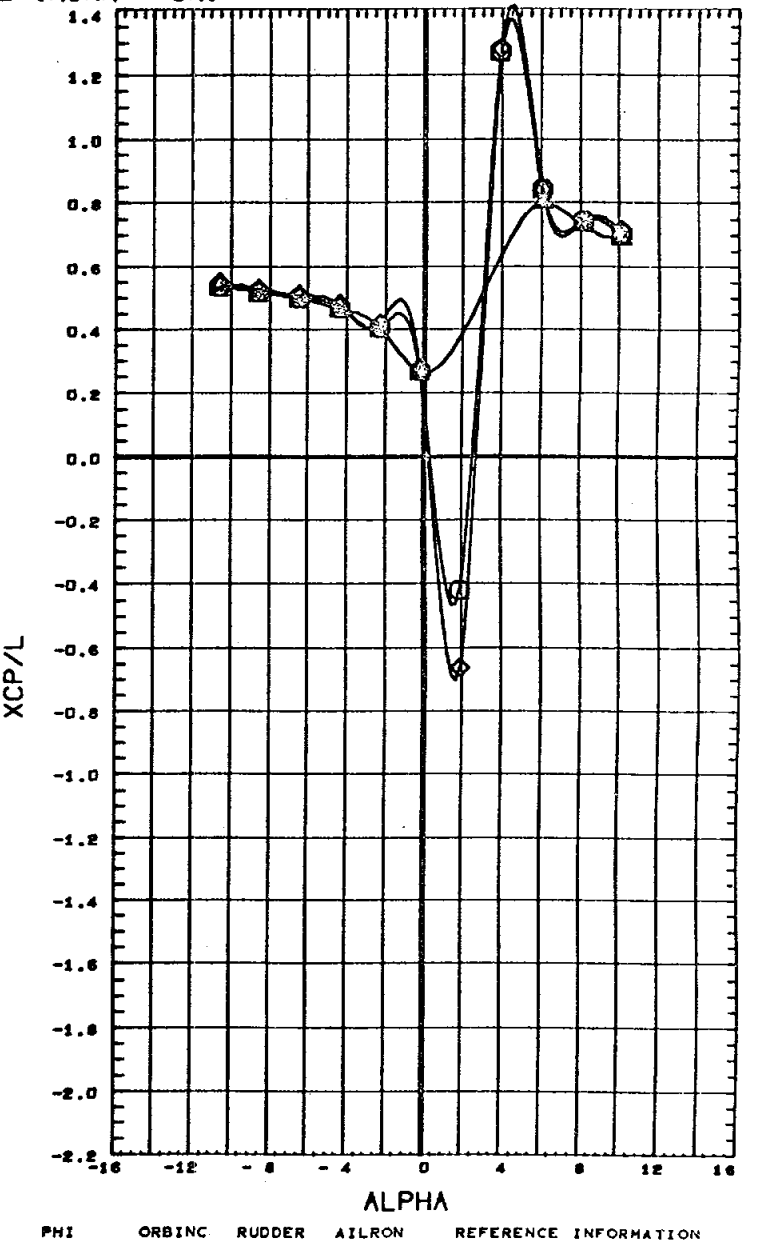
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





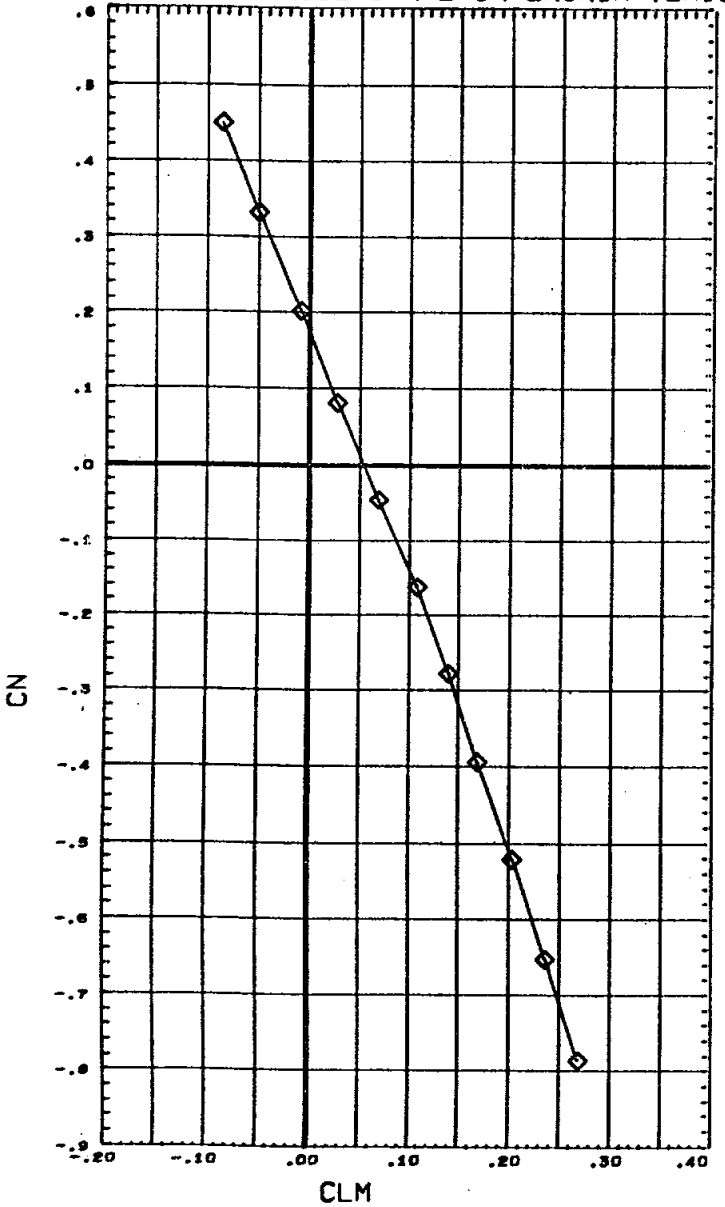
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(677008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

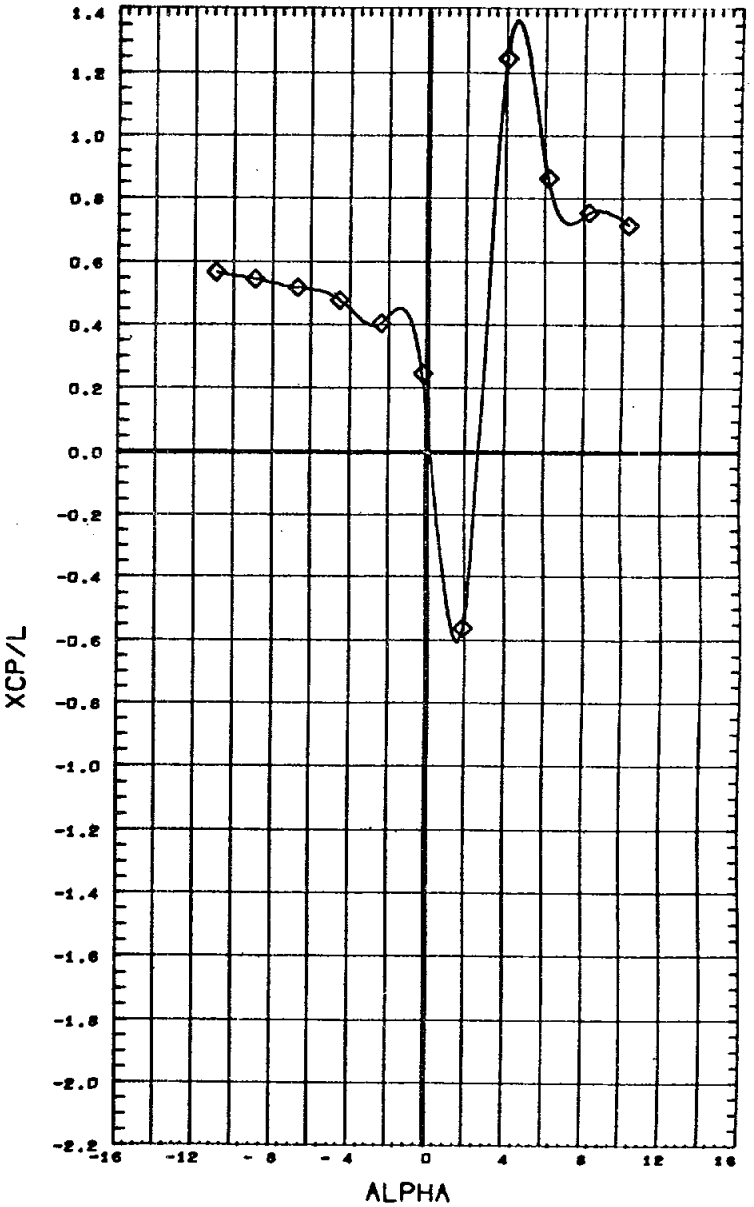
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





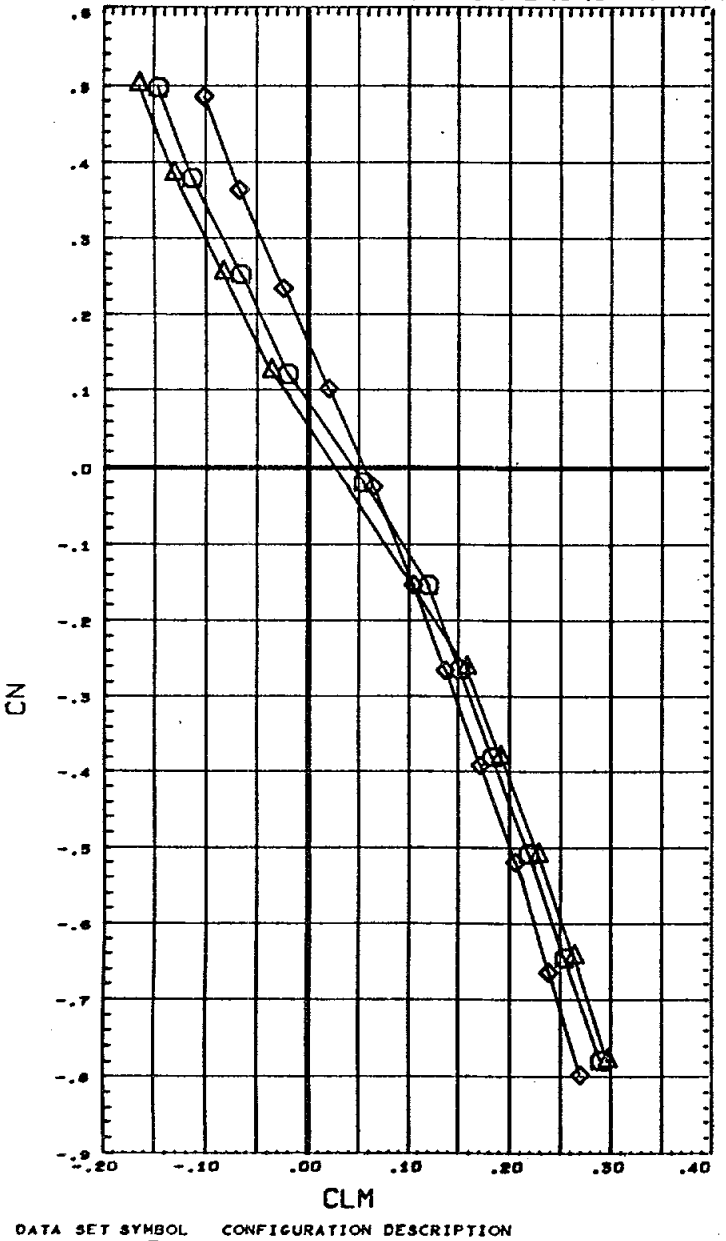
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77012)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77008)	◇	M556(IA1) NAR ATP BL LV (02)(T3)(S1)

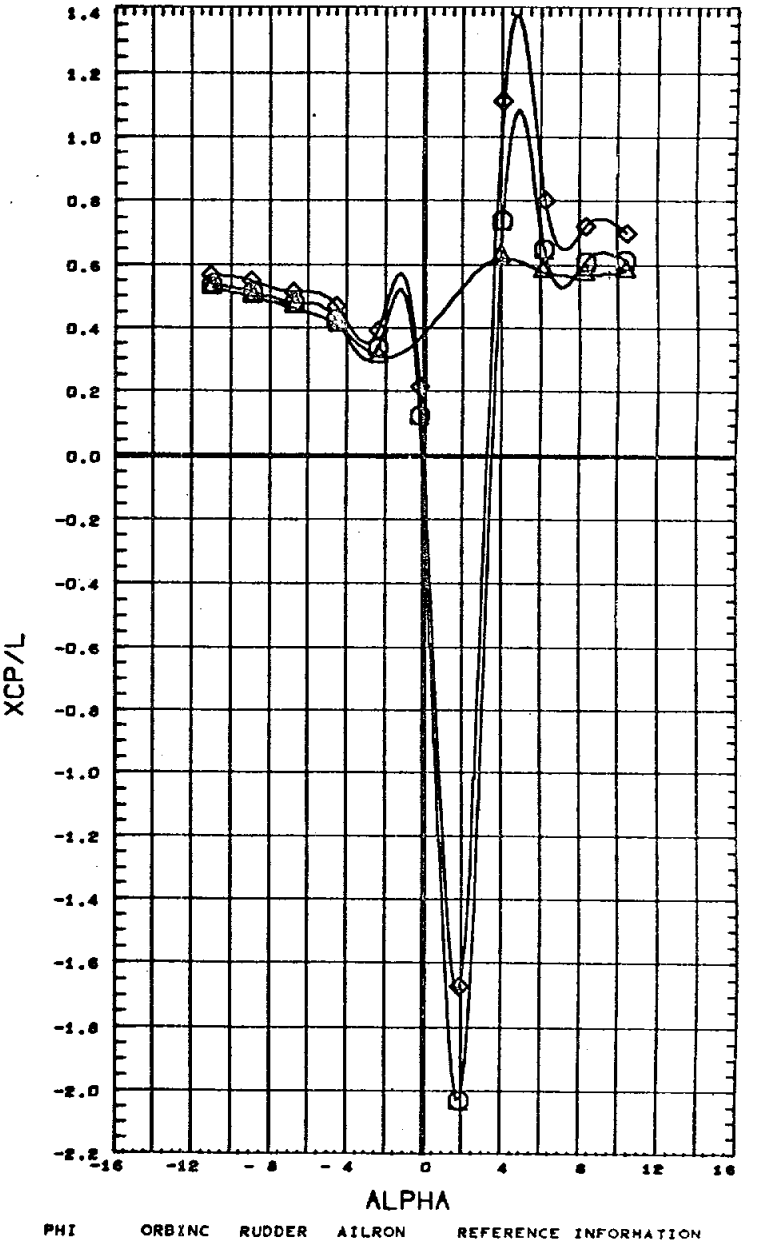
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





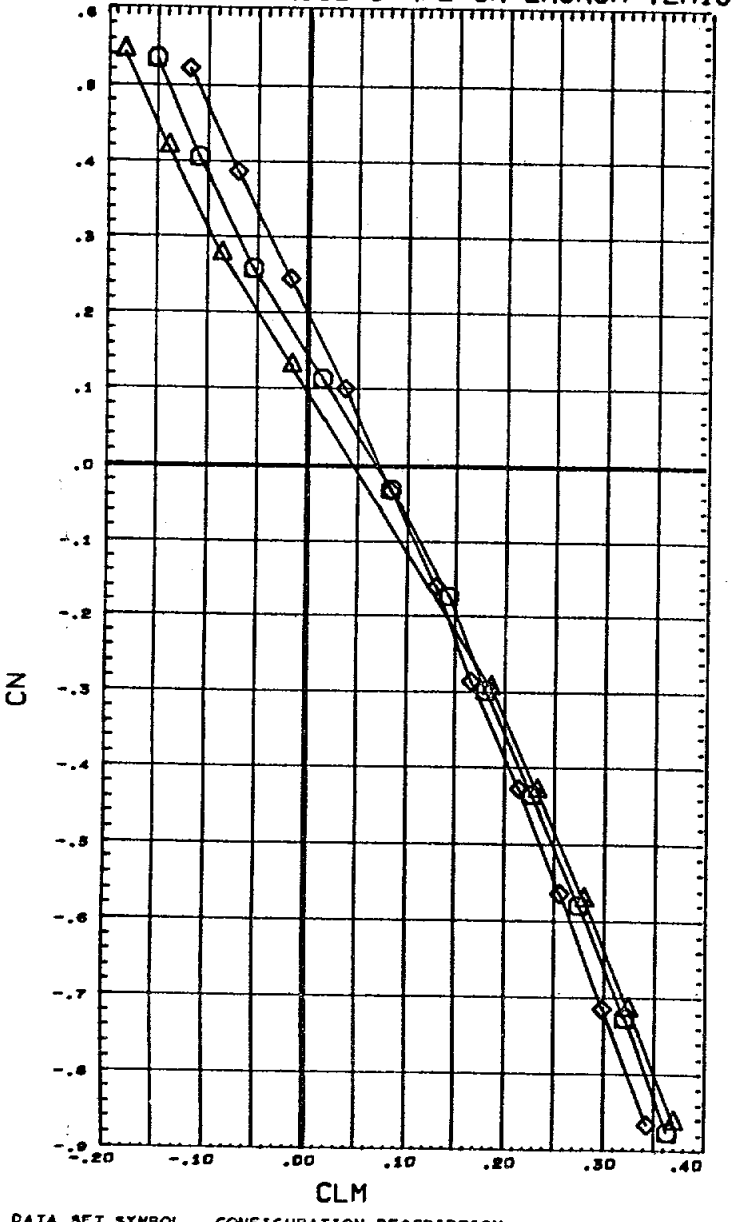
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

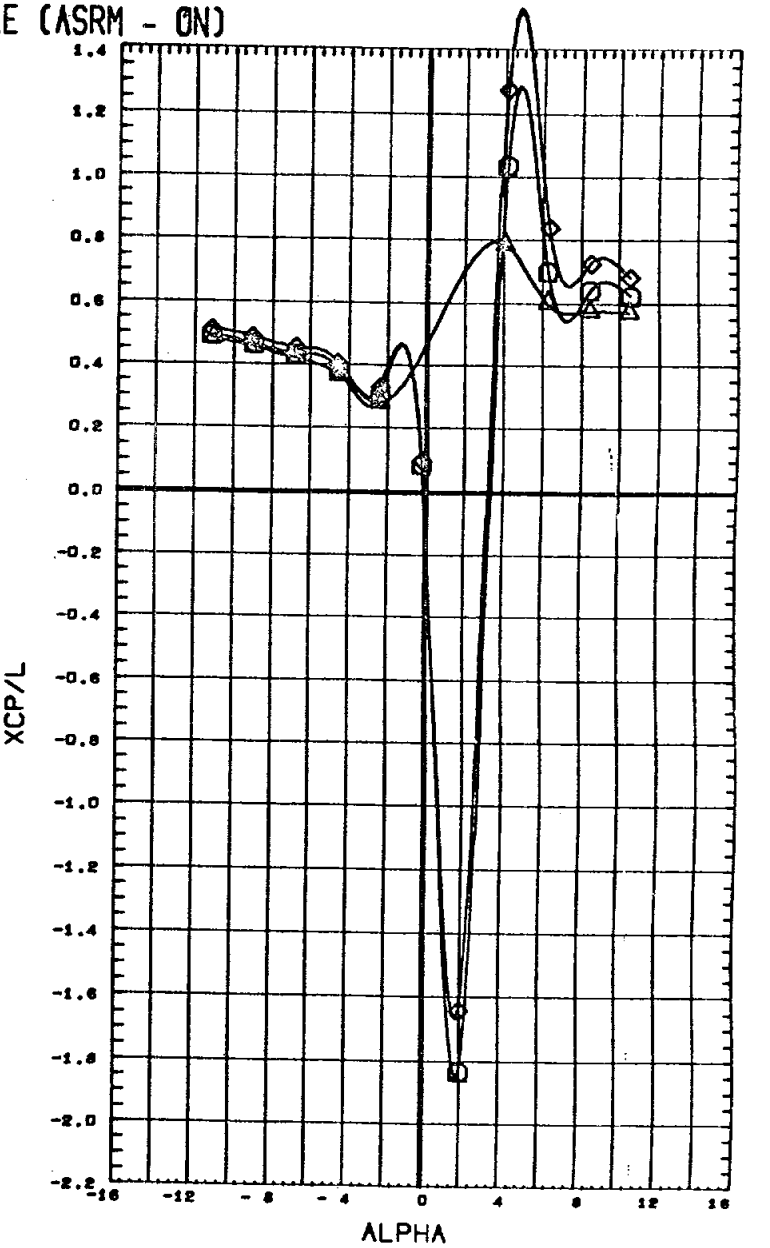
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





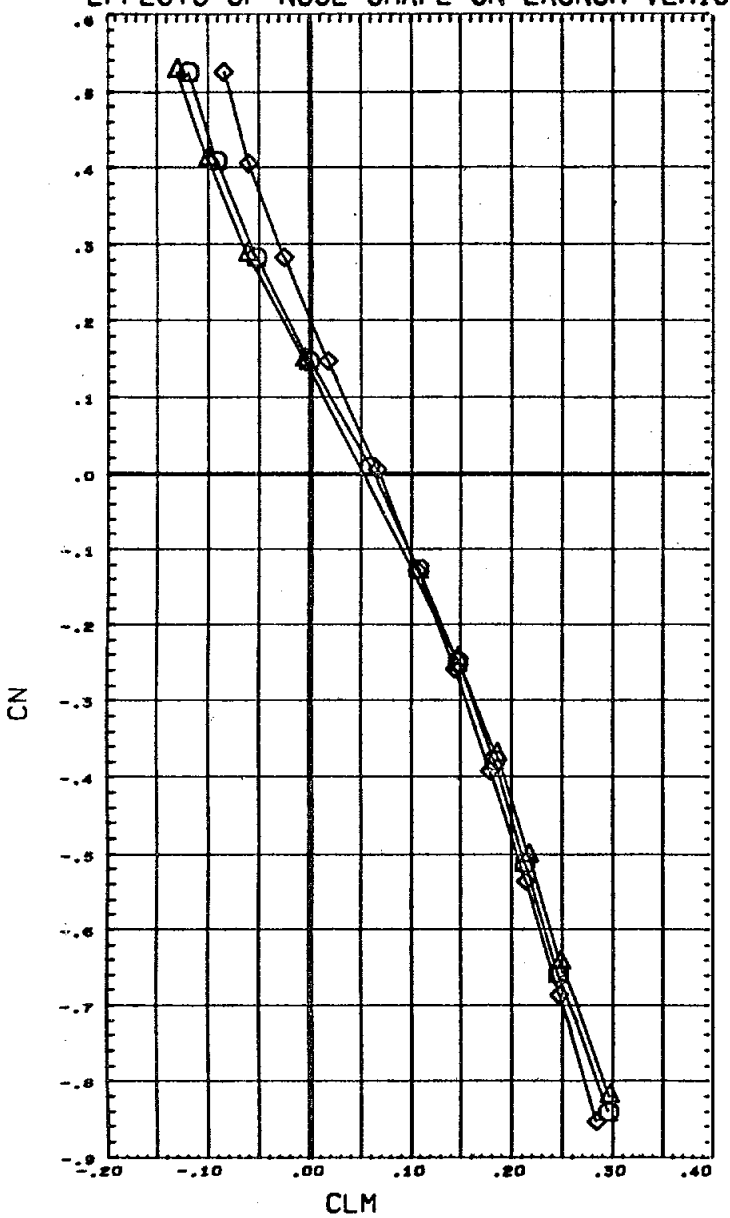
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

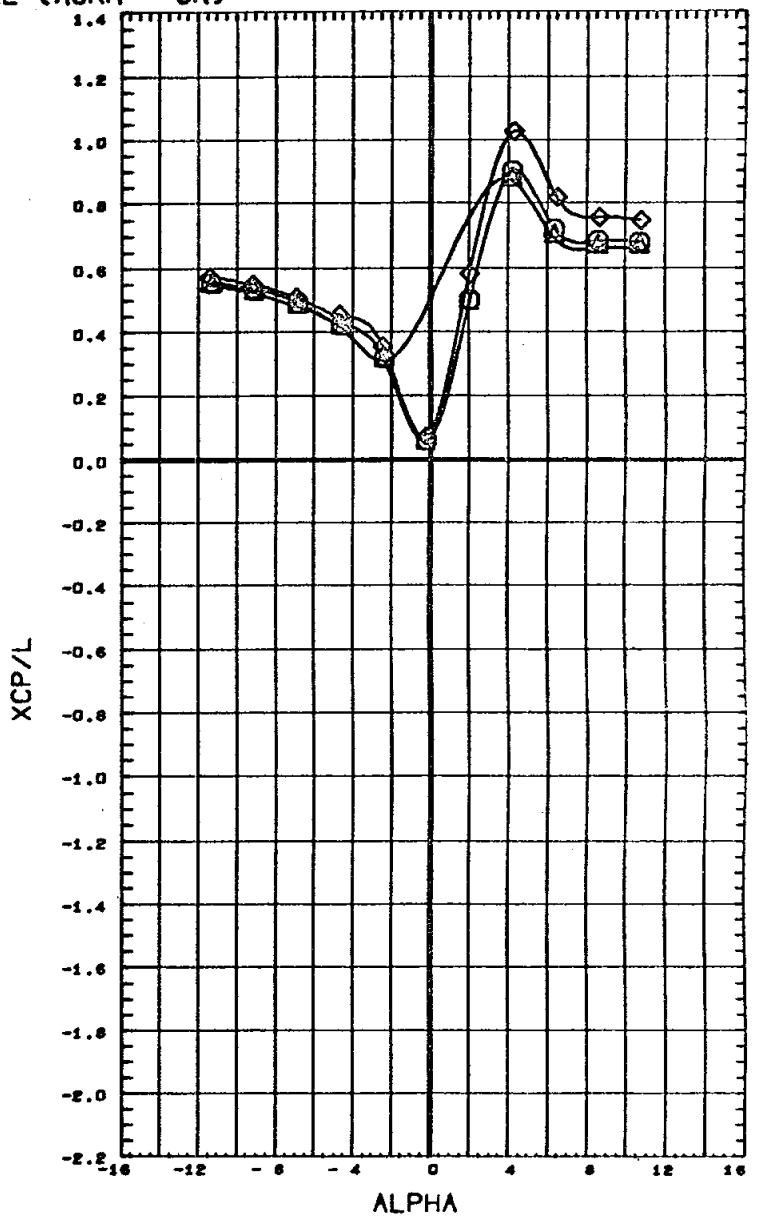
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





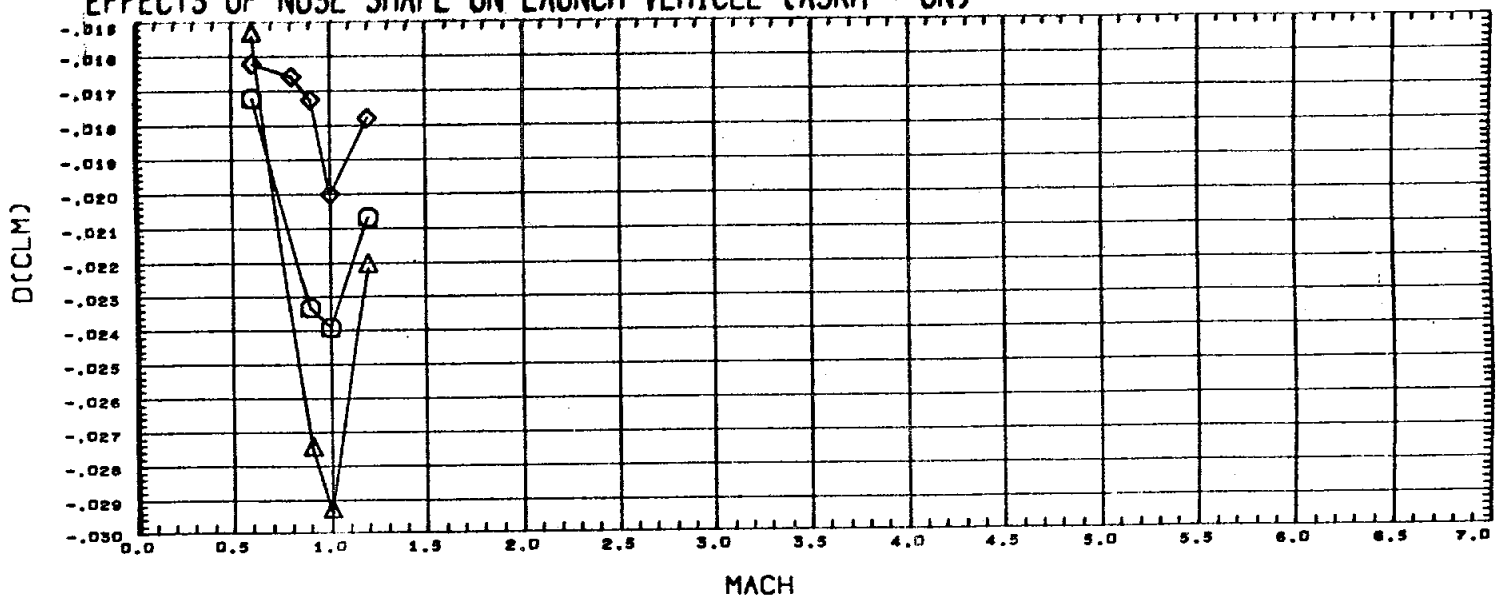
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677012)	⧖	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(677008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

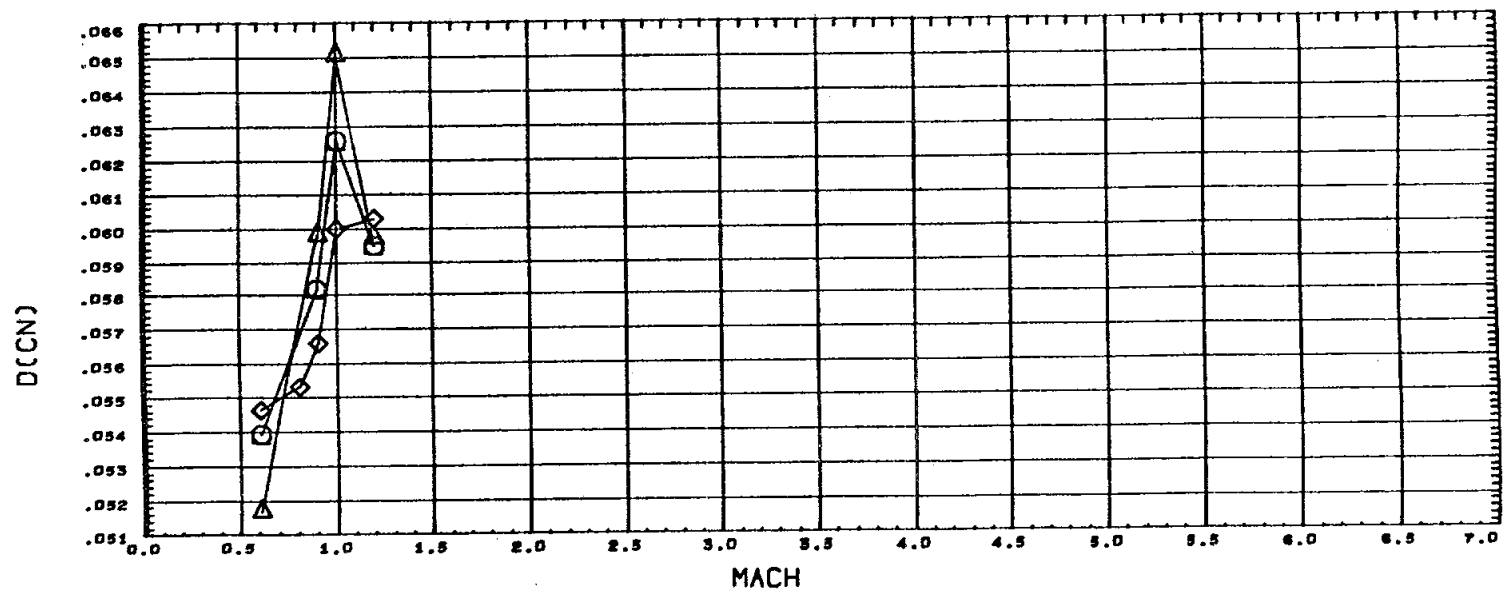
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)



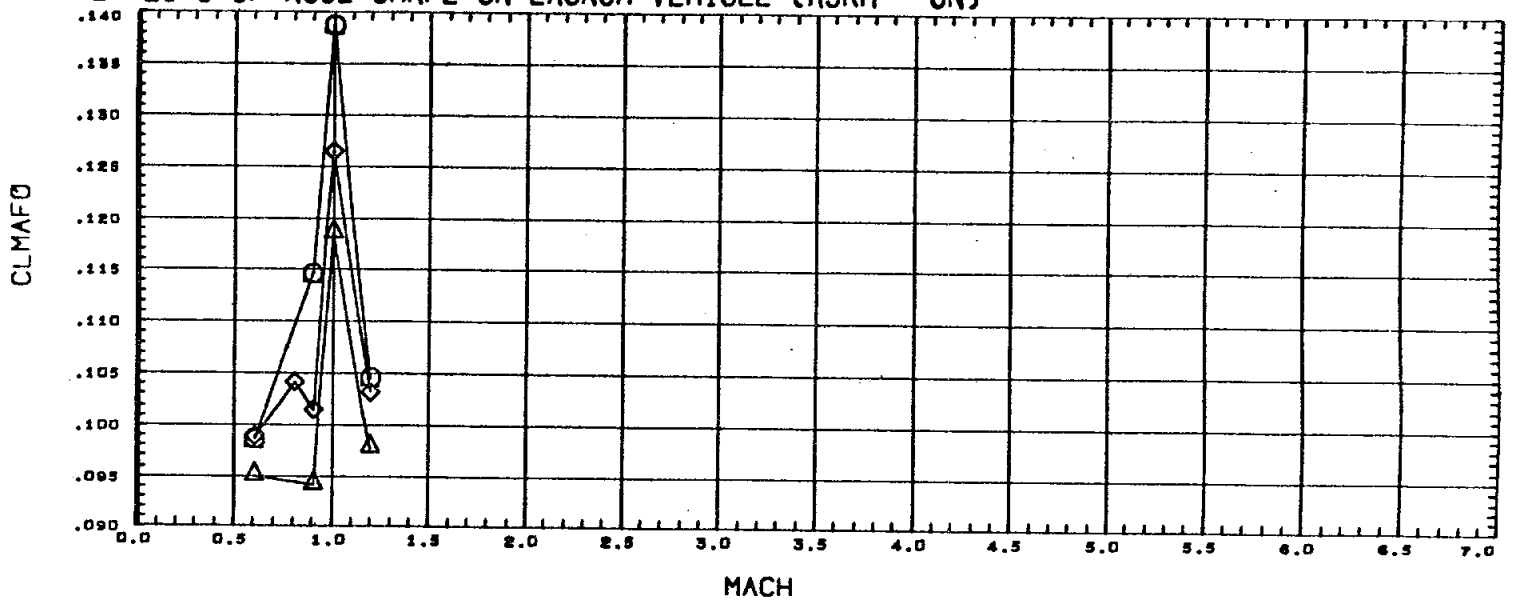


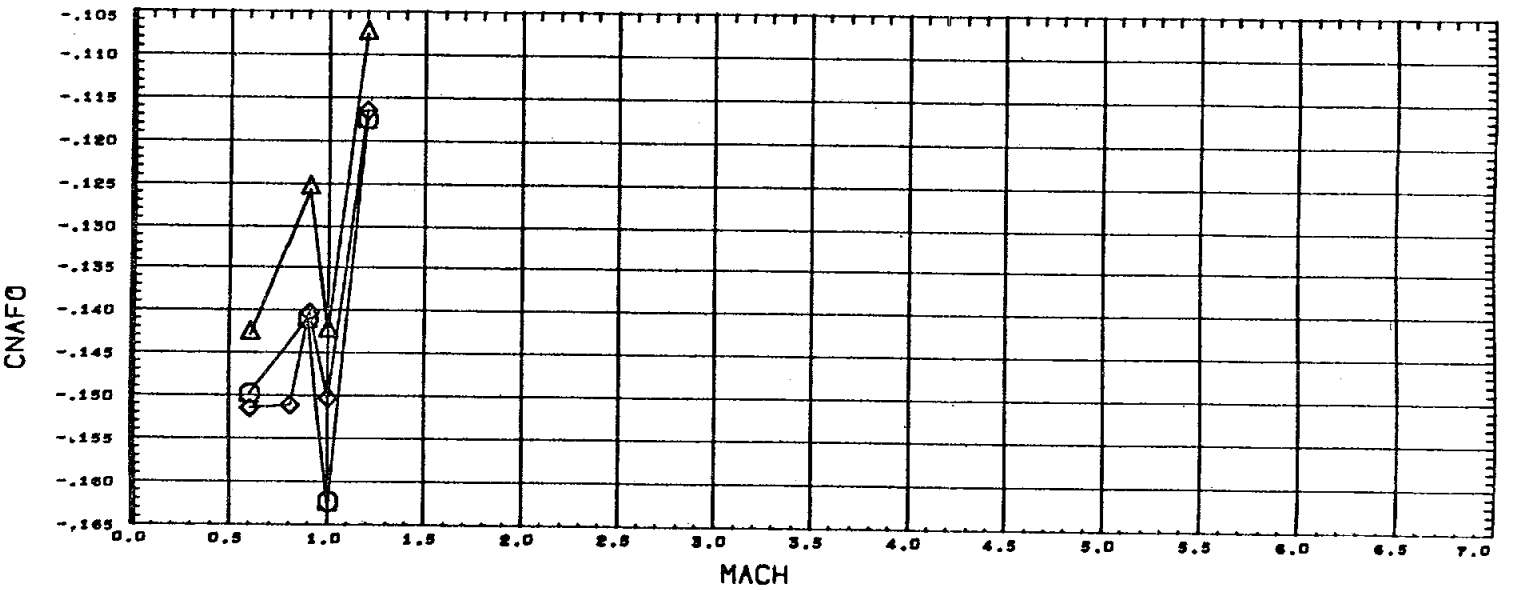
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)



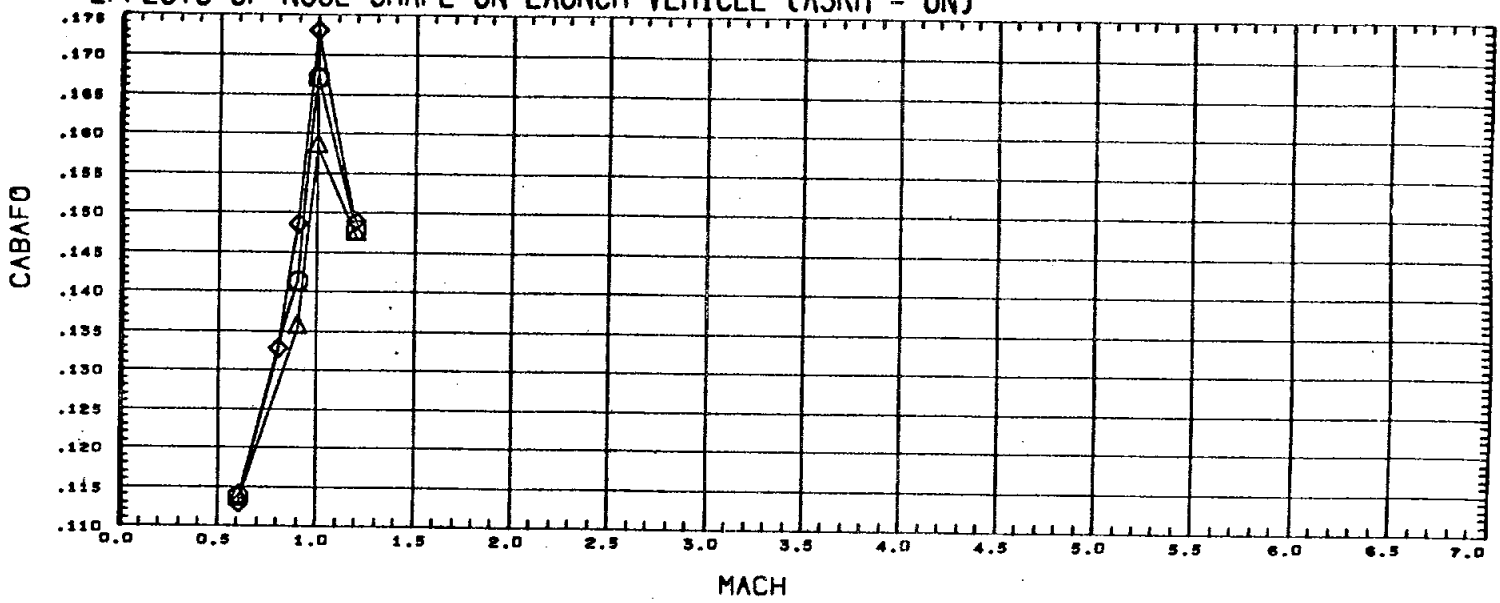


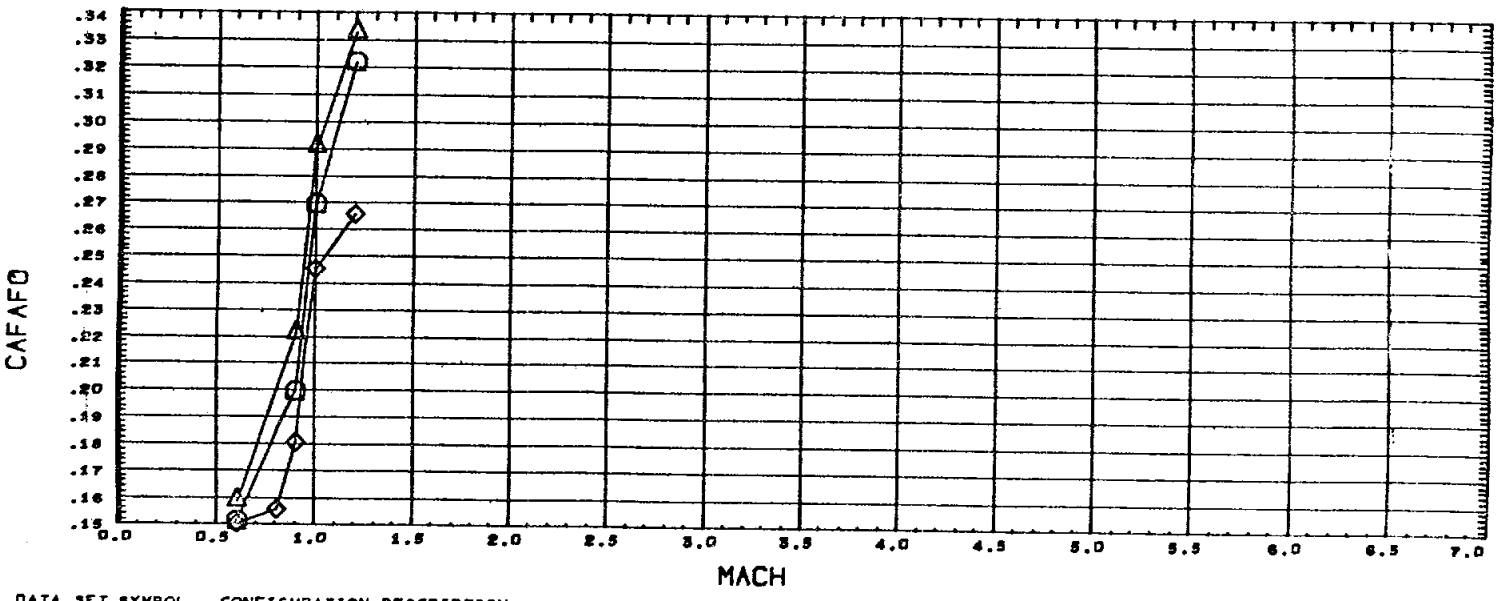
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)



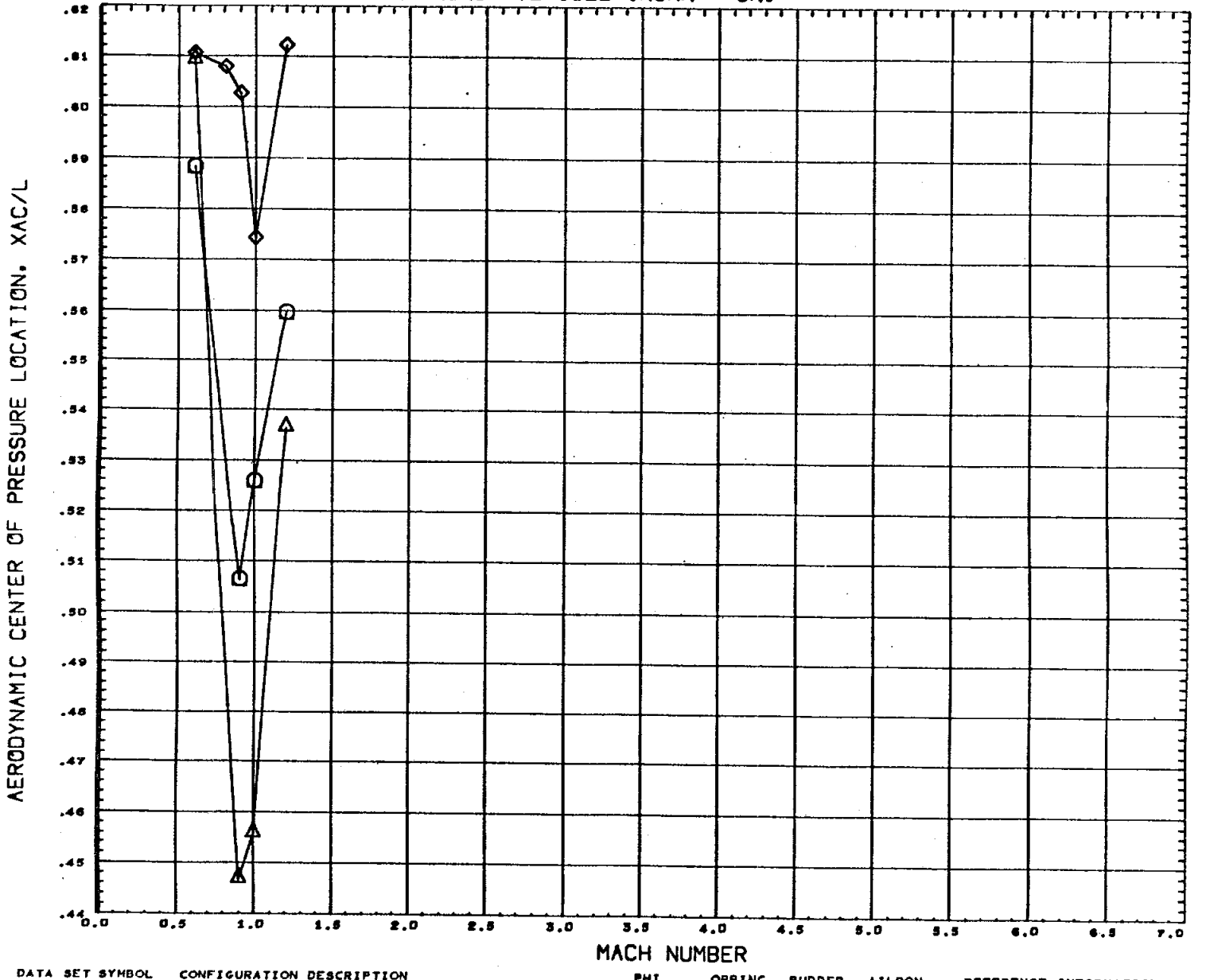


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)

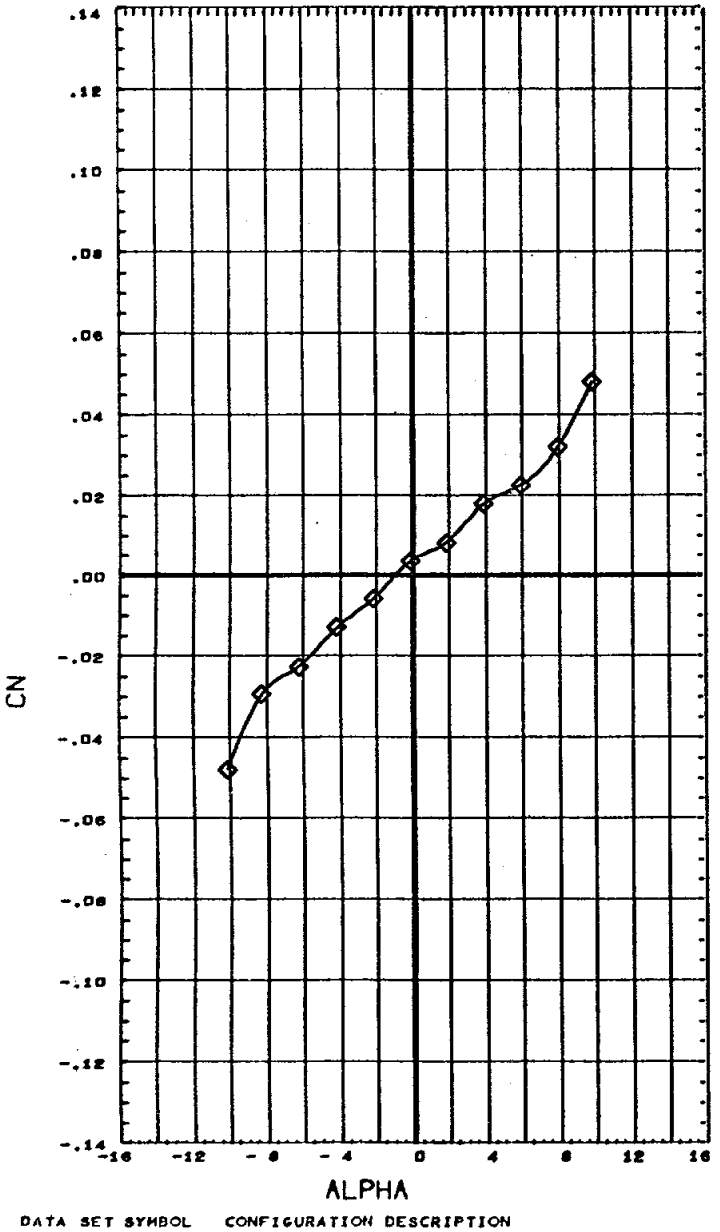


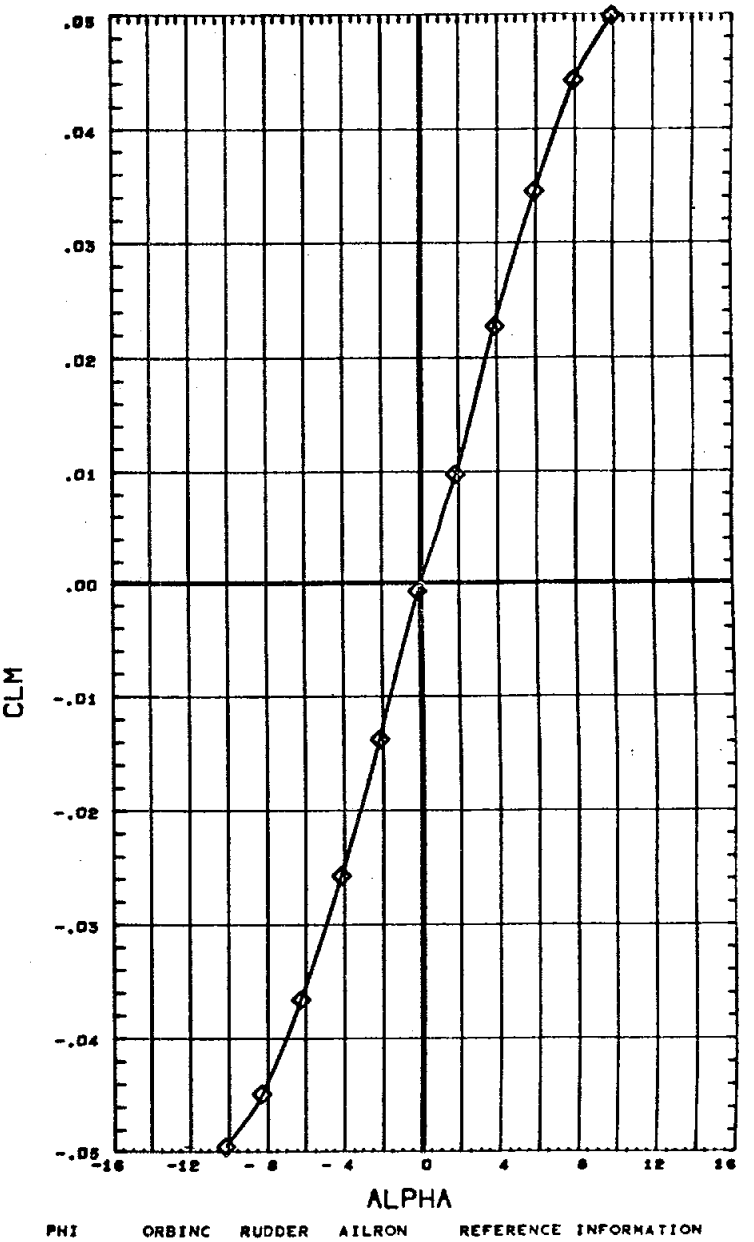
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77016)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77012)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(G77008)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





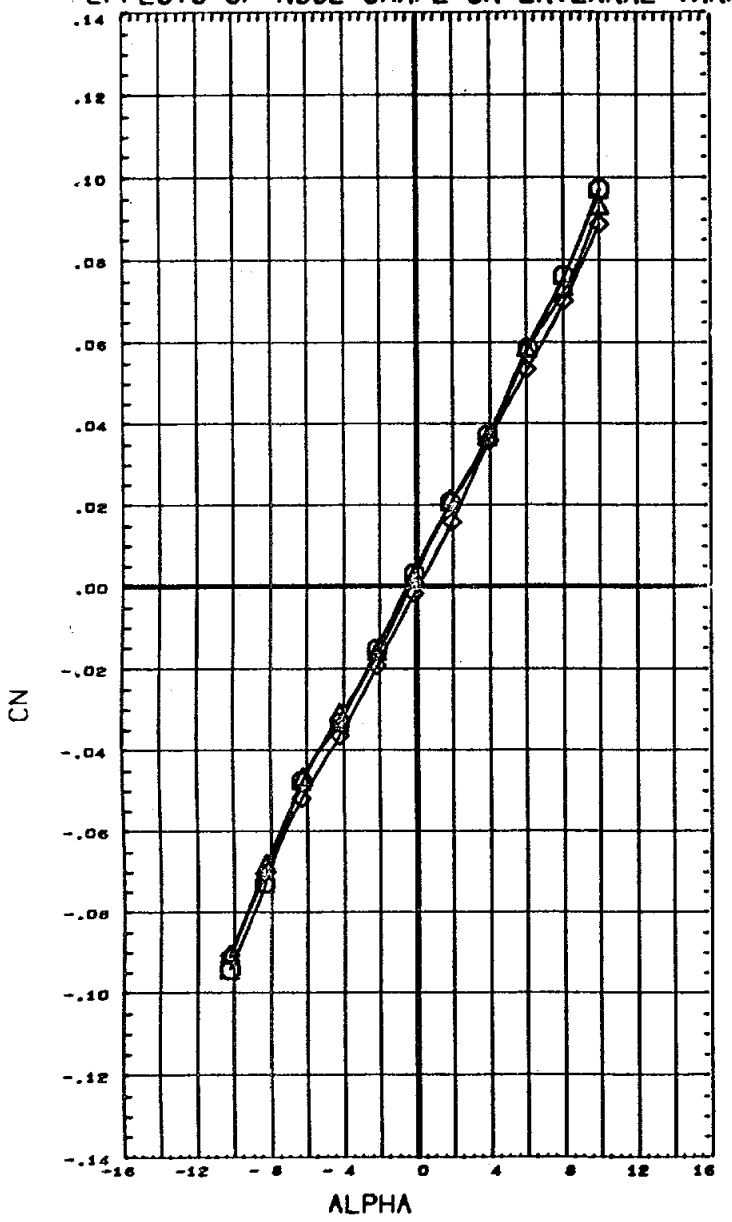
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

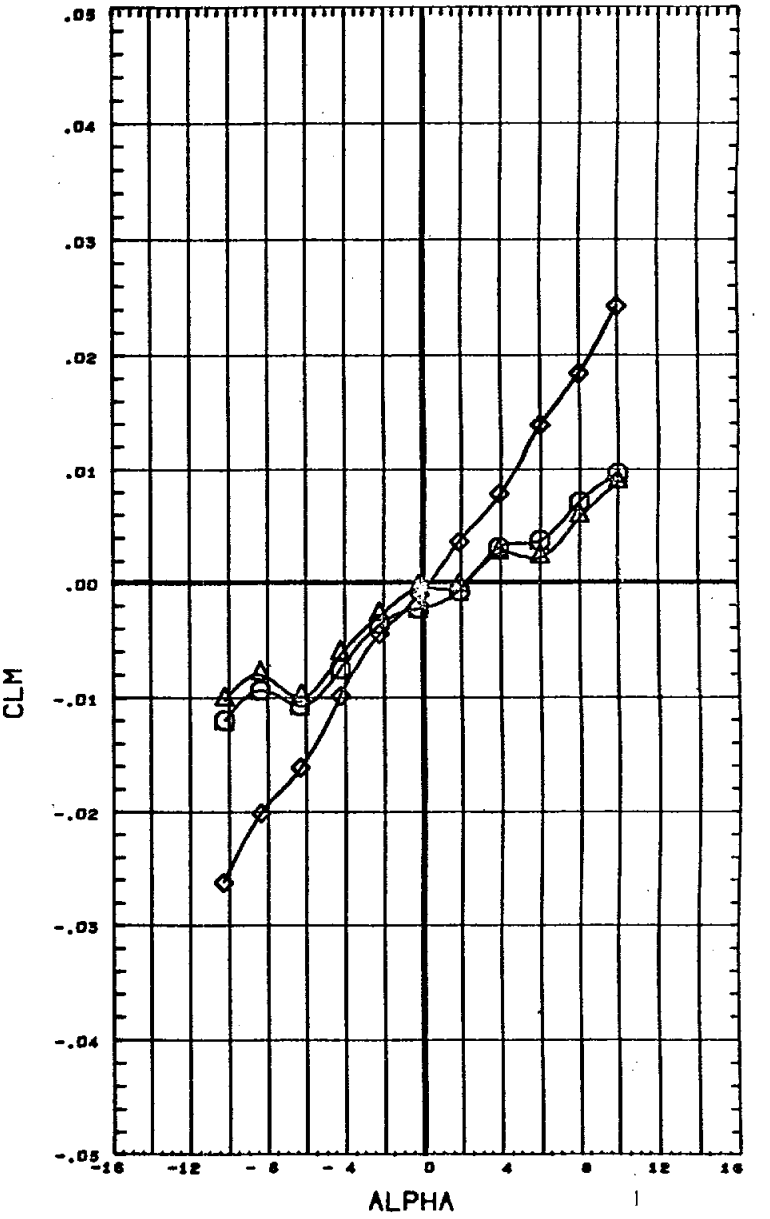
PHI	ORBINC	RUDDER	AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





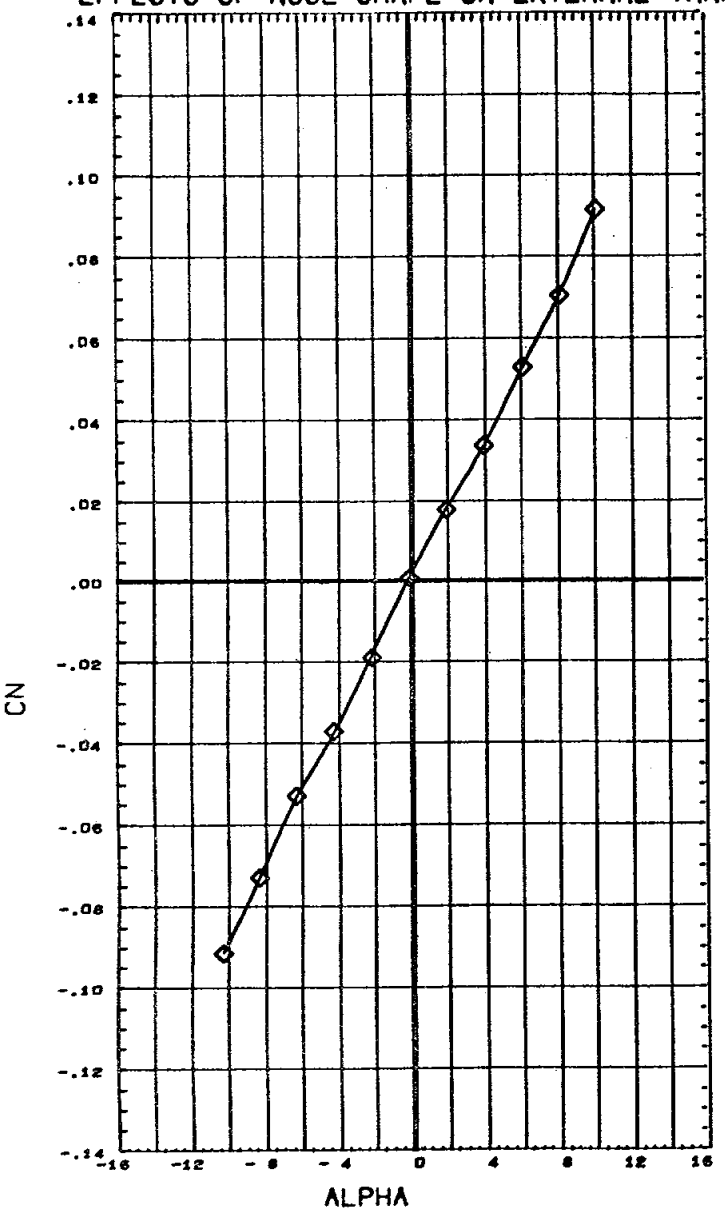
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

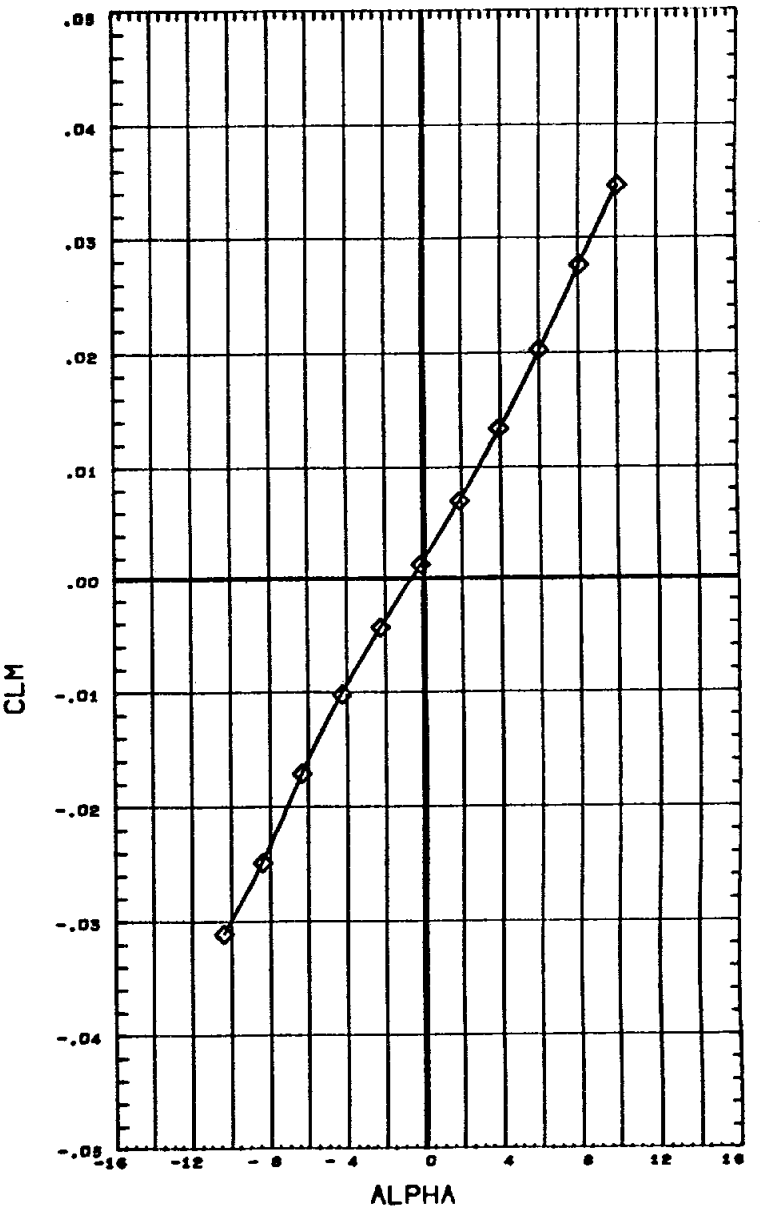
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

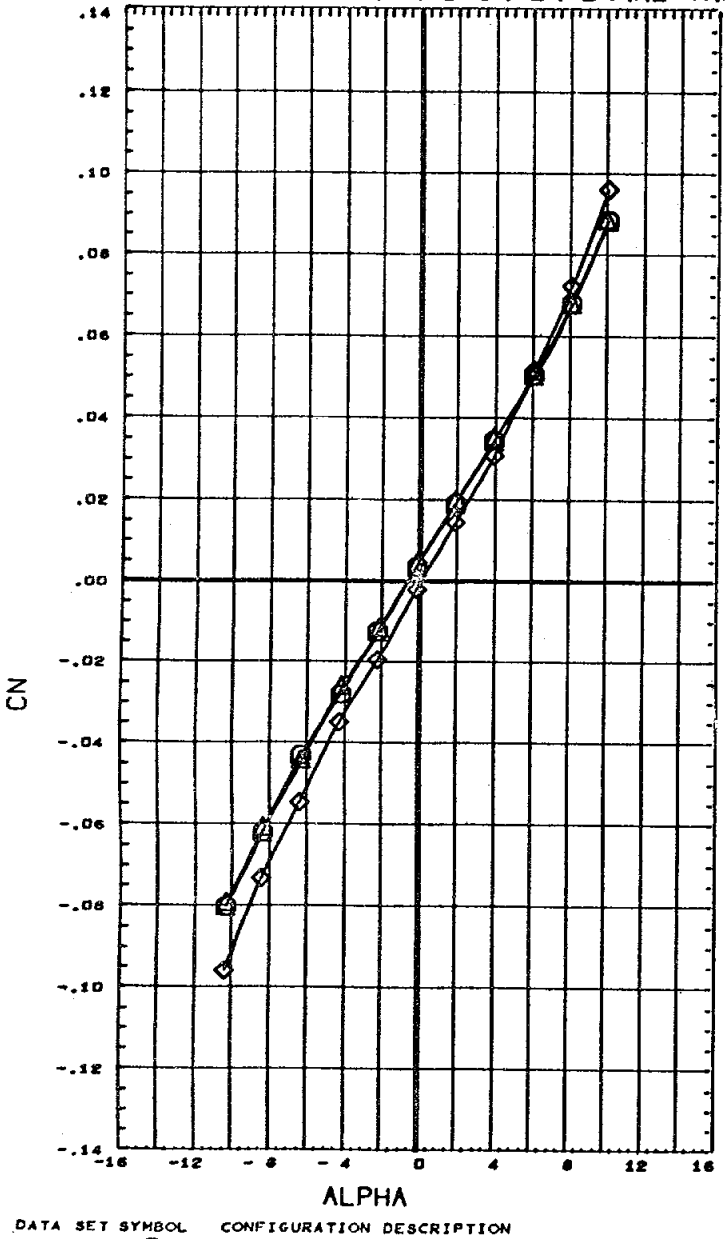
PHI ORBINC RUDDER AILRON

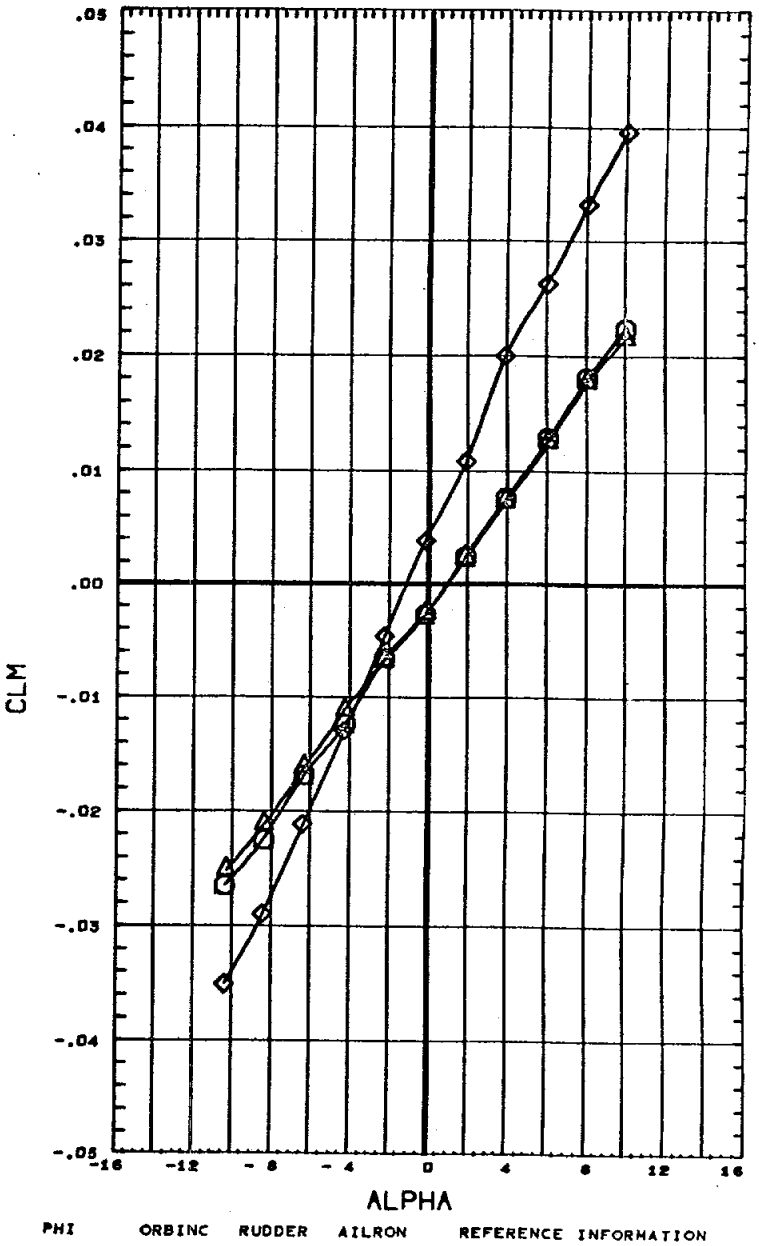
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





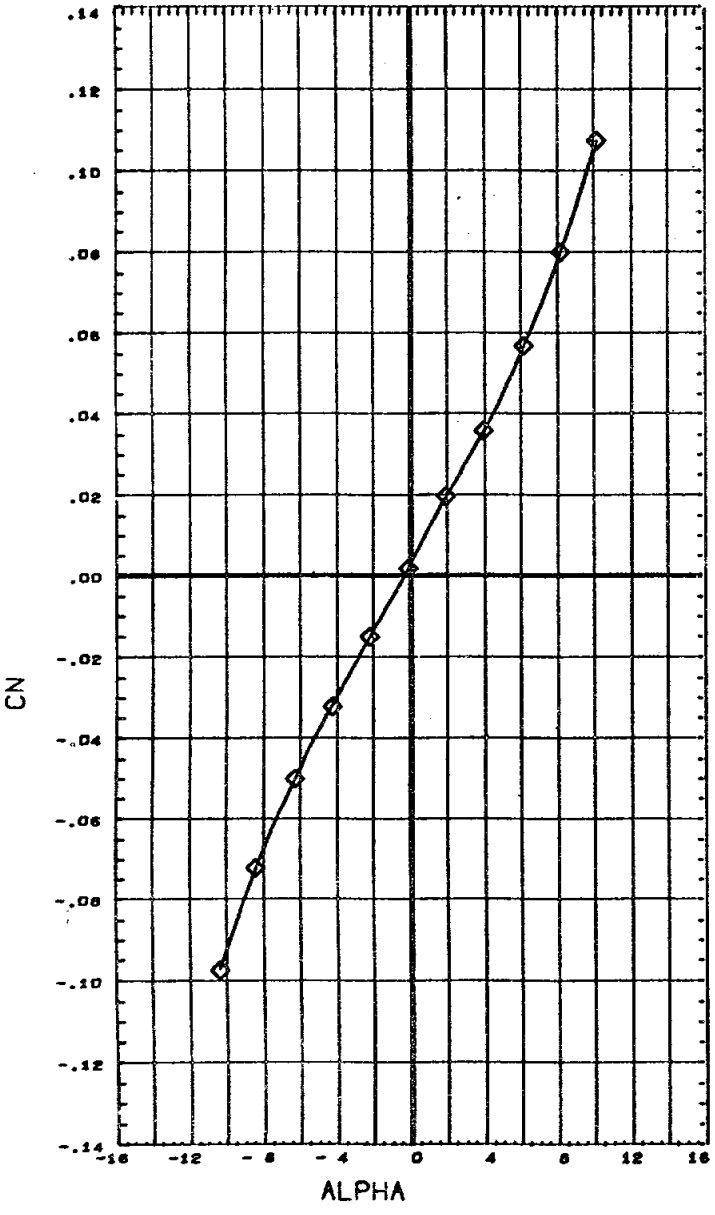
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

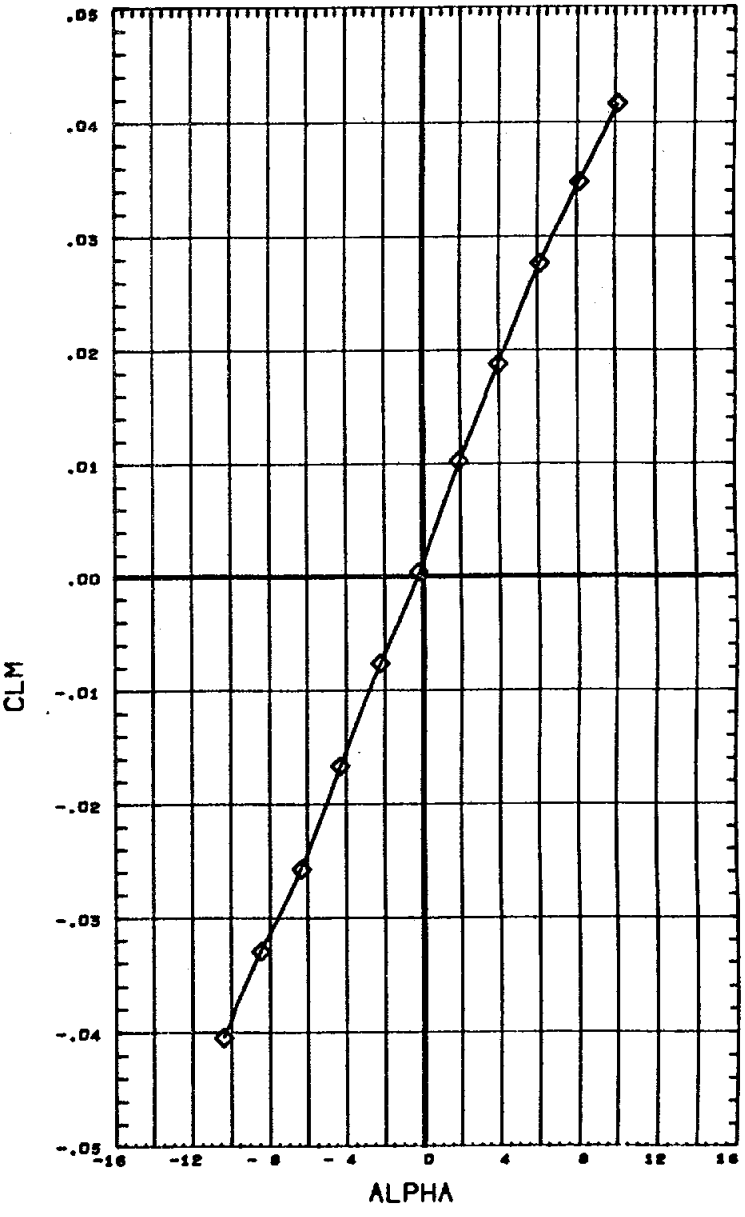
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

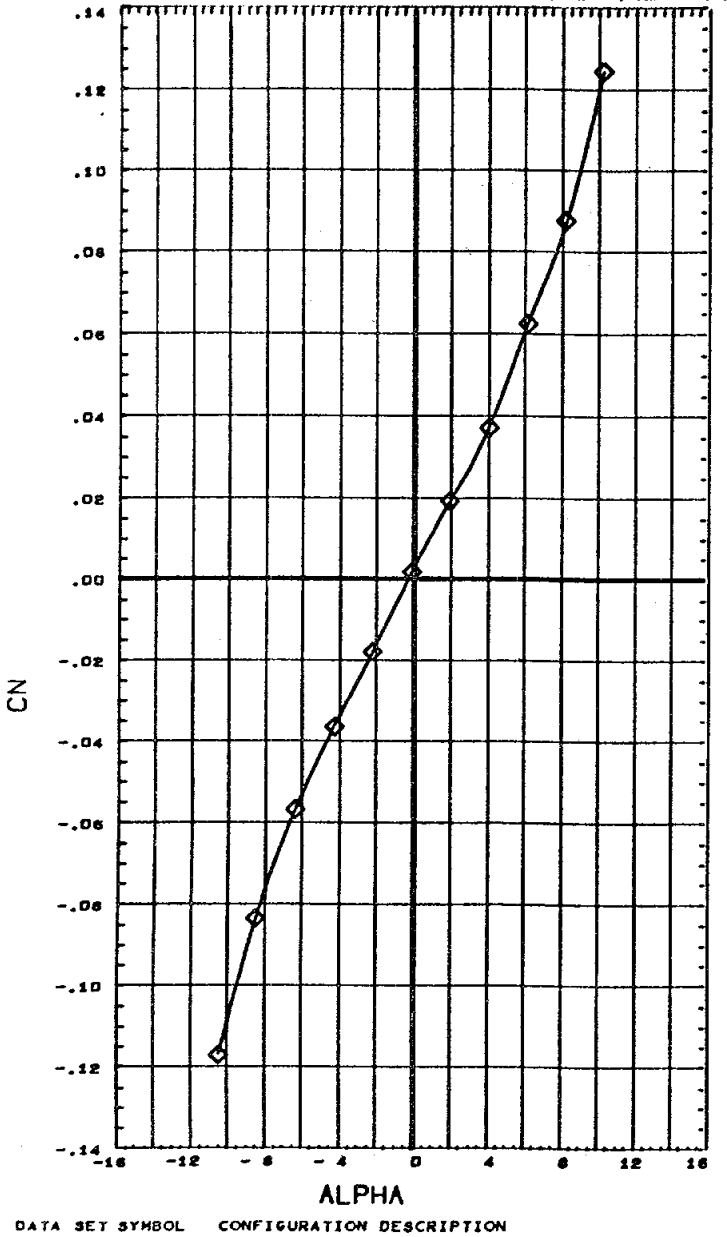
PHI ORBINC RUDDER AILRON

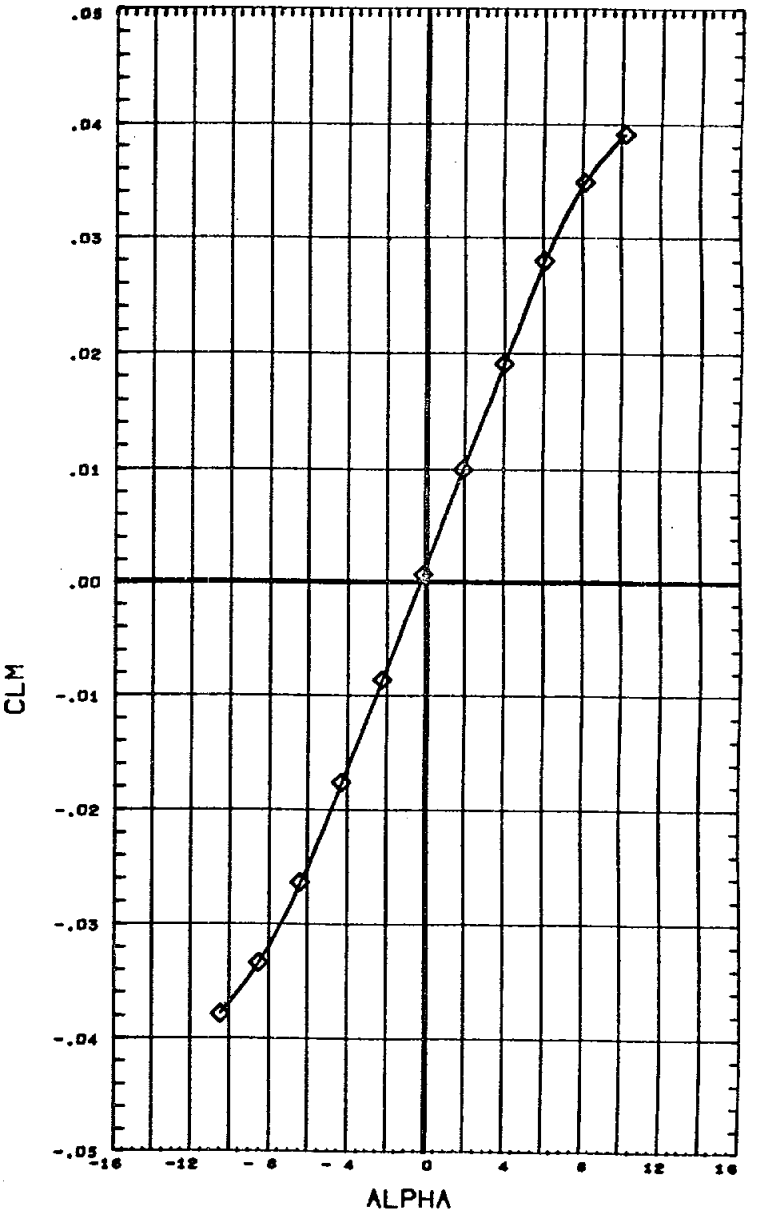
REFERENCE INFORMATION

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LREF	3.3120	IN.
BREF	3.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677001)	◇	M556(IA1) NAR ATP BL LV (T5)

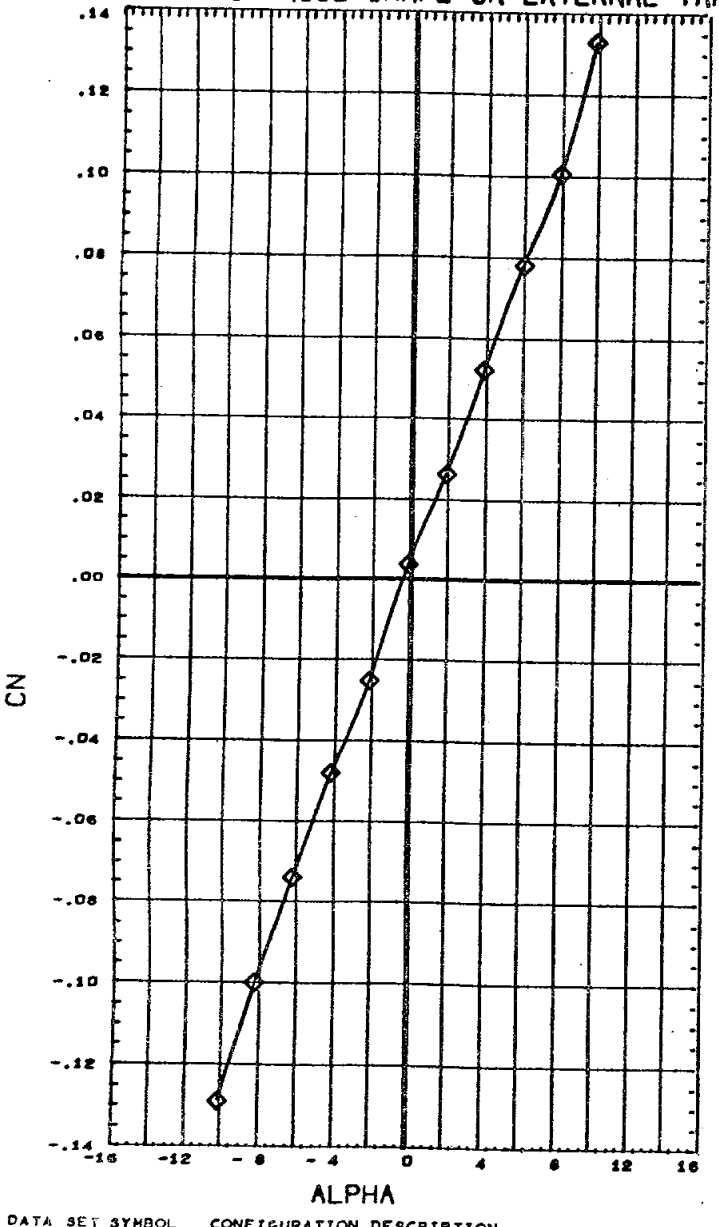
PHI ORBINC RUDDER AILRON

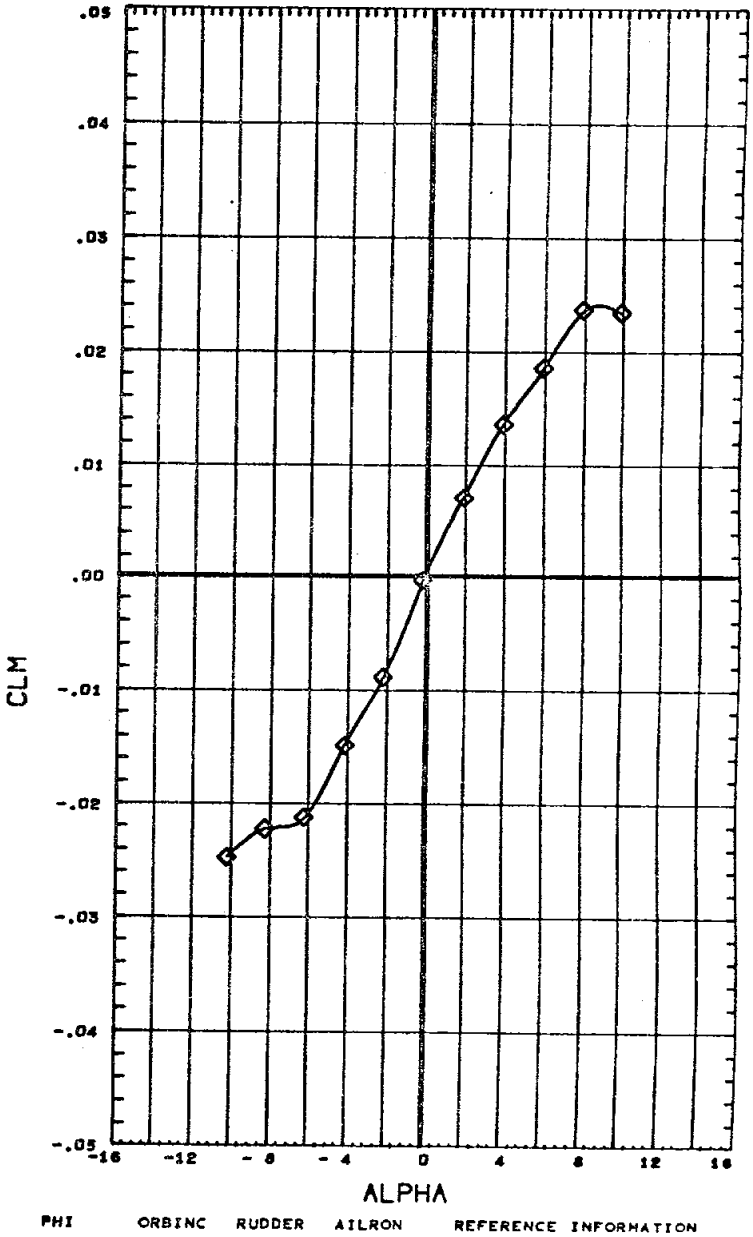
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

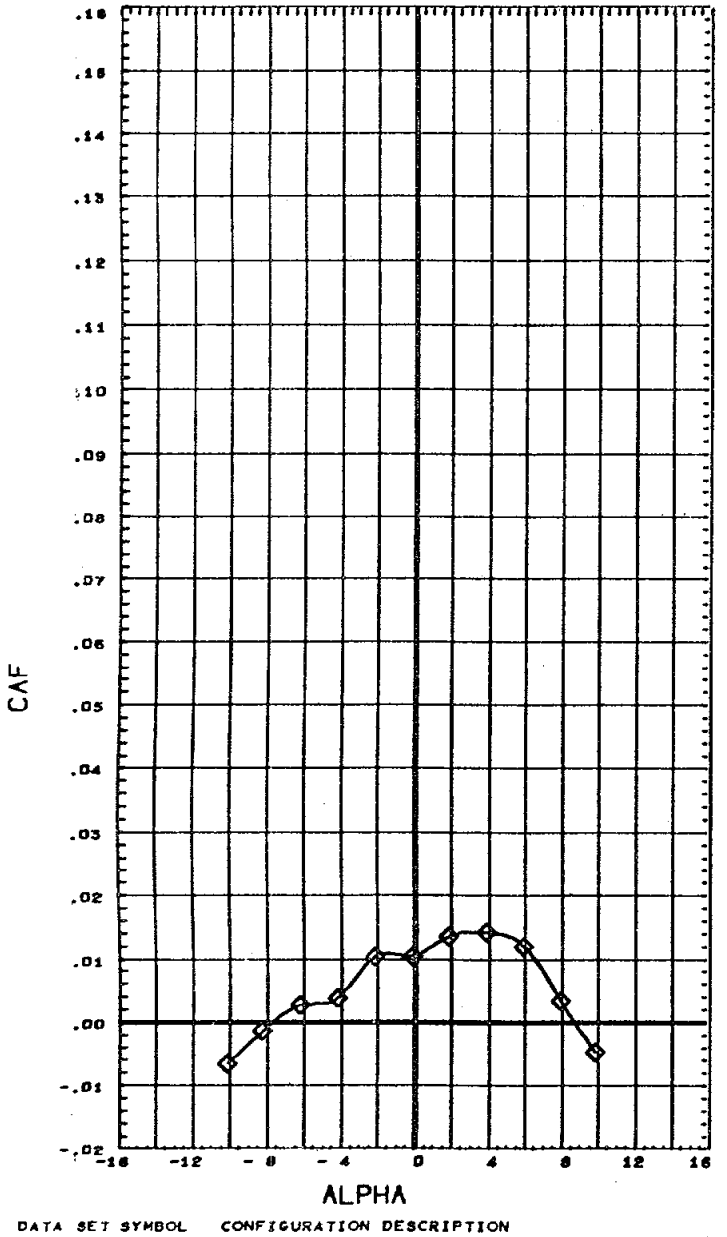
PHI ORBINC RUDDER AILRON

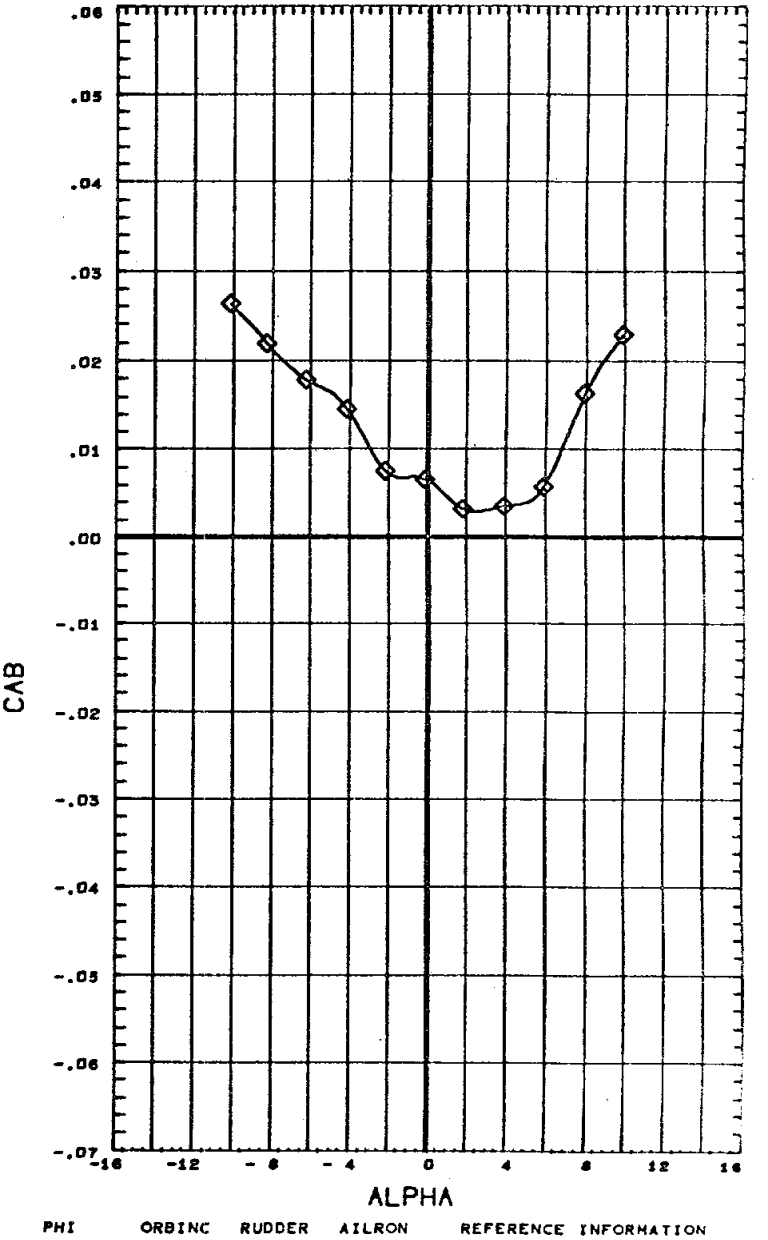
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677001)	◇	M556(IA1) NAR ATP BL LV (T3)

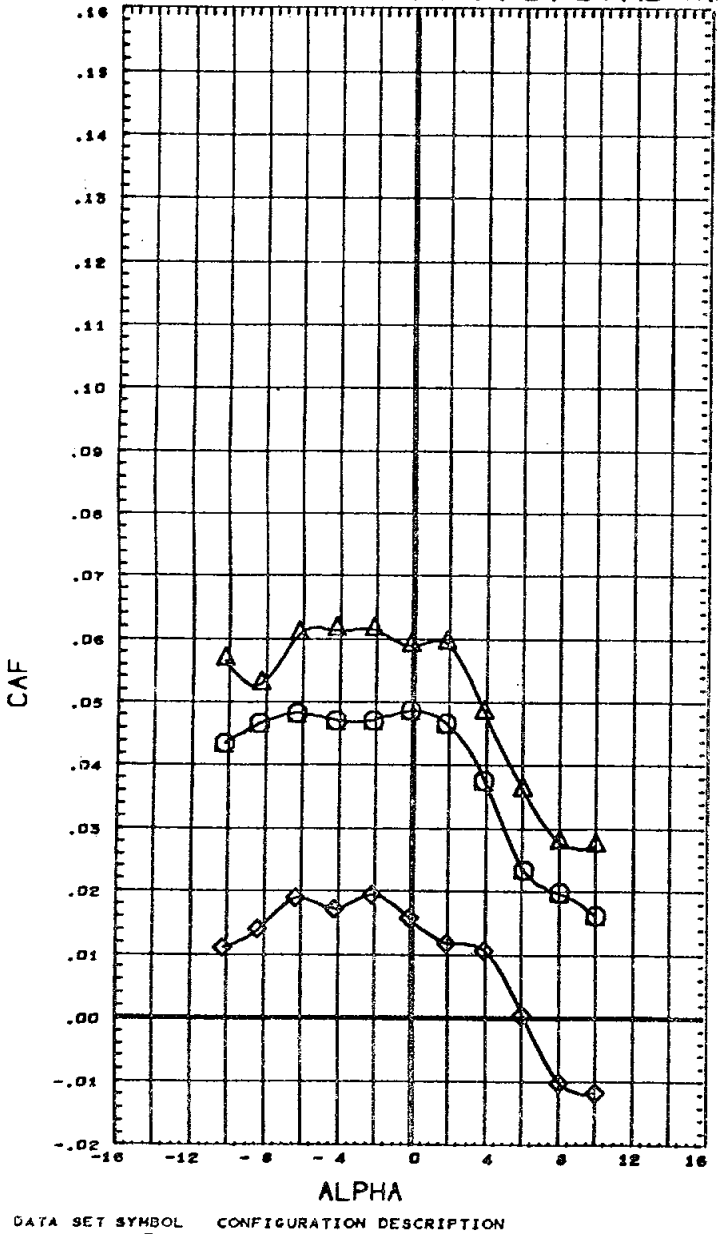
PHI	ORBINC	RUDDER	AILRON

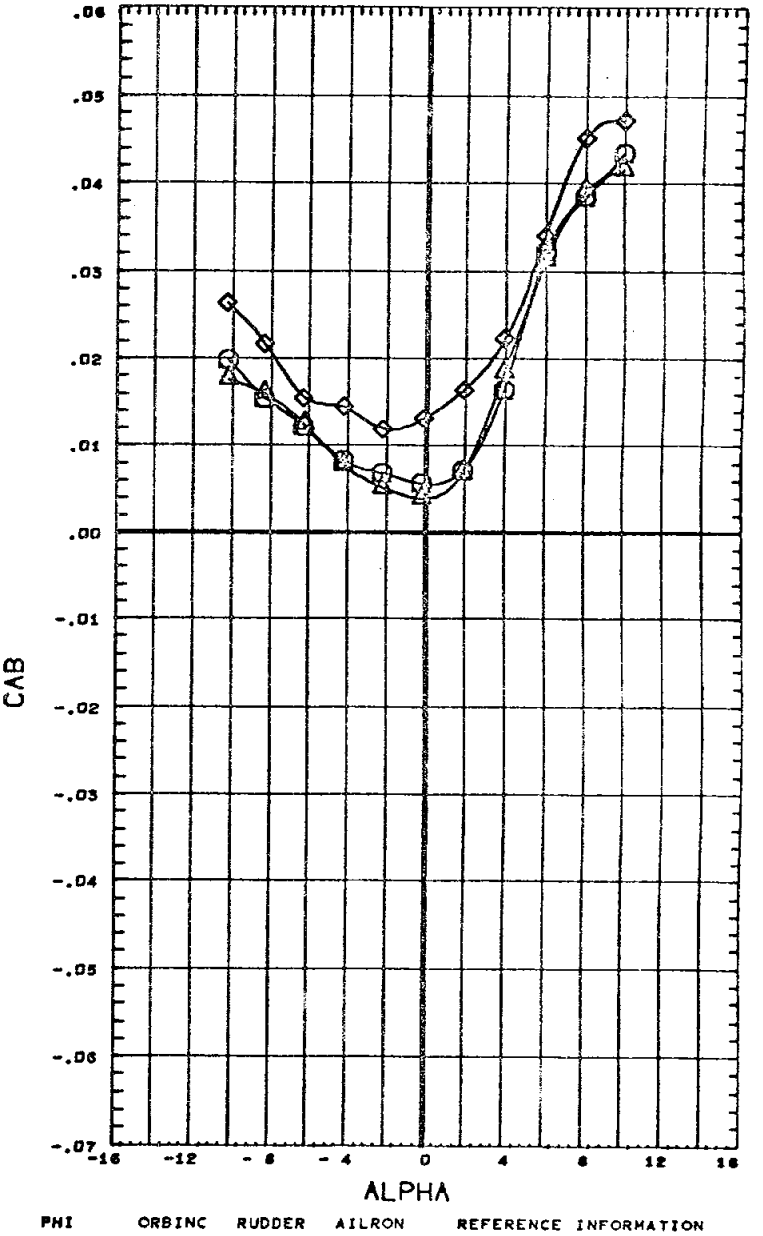
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





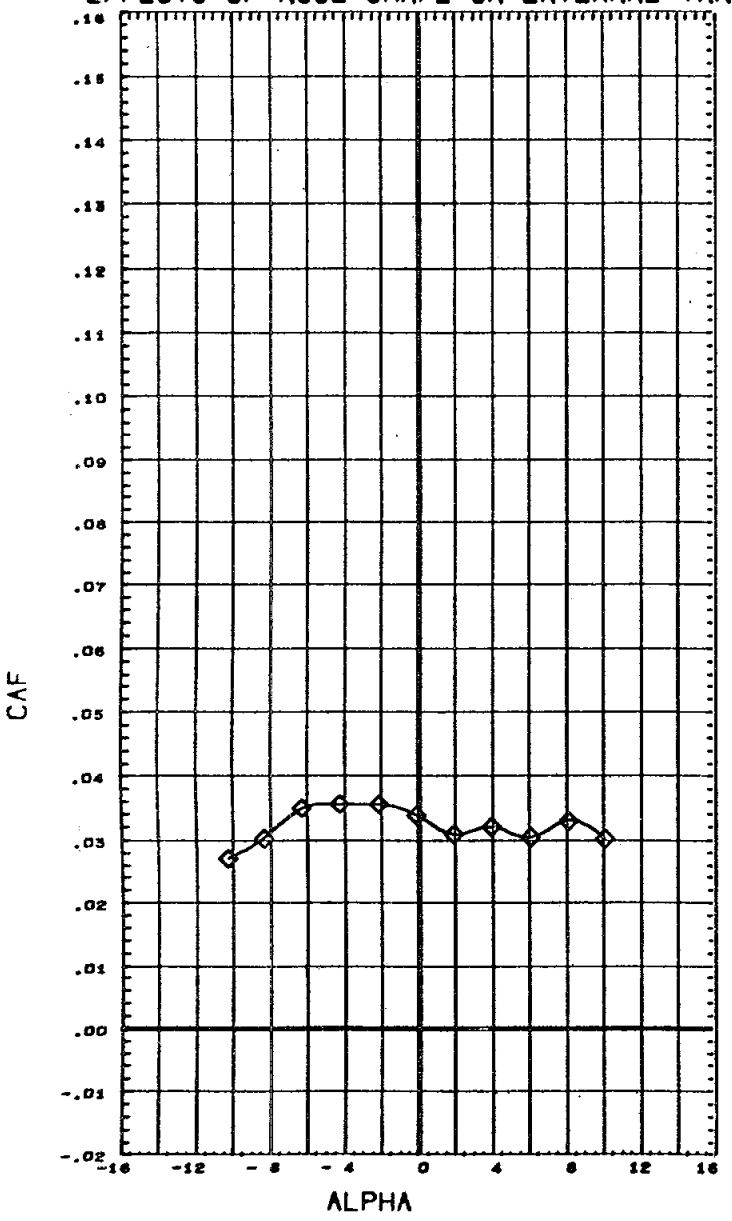
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677033)	○	M556(IA1) NAR ATP BL LV (T1)
(677032)	△	M556(IA1) NAR ATP BL LV (T2)
(677001)	◇	M556(IA1) NAR ATP BL LV (T3)

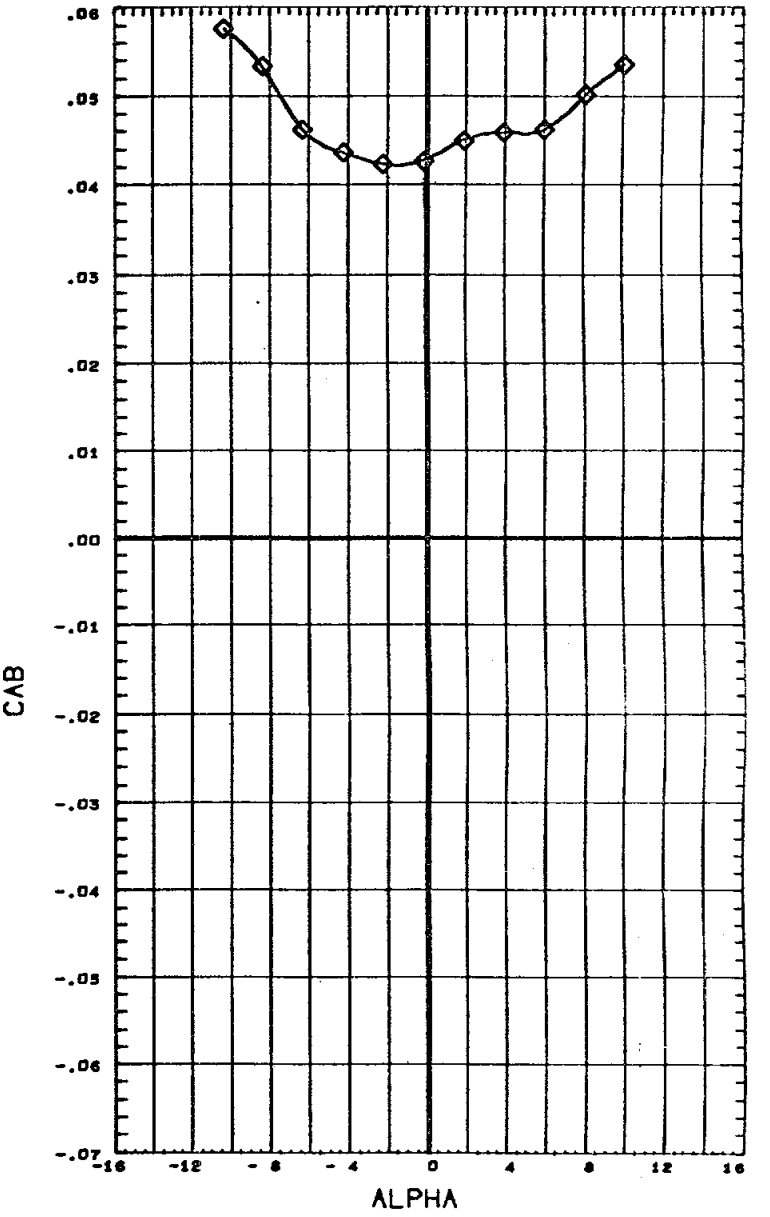
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

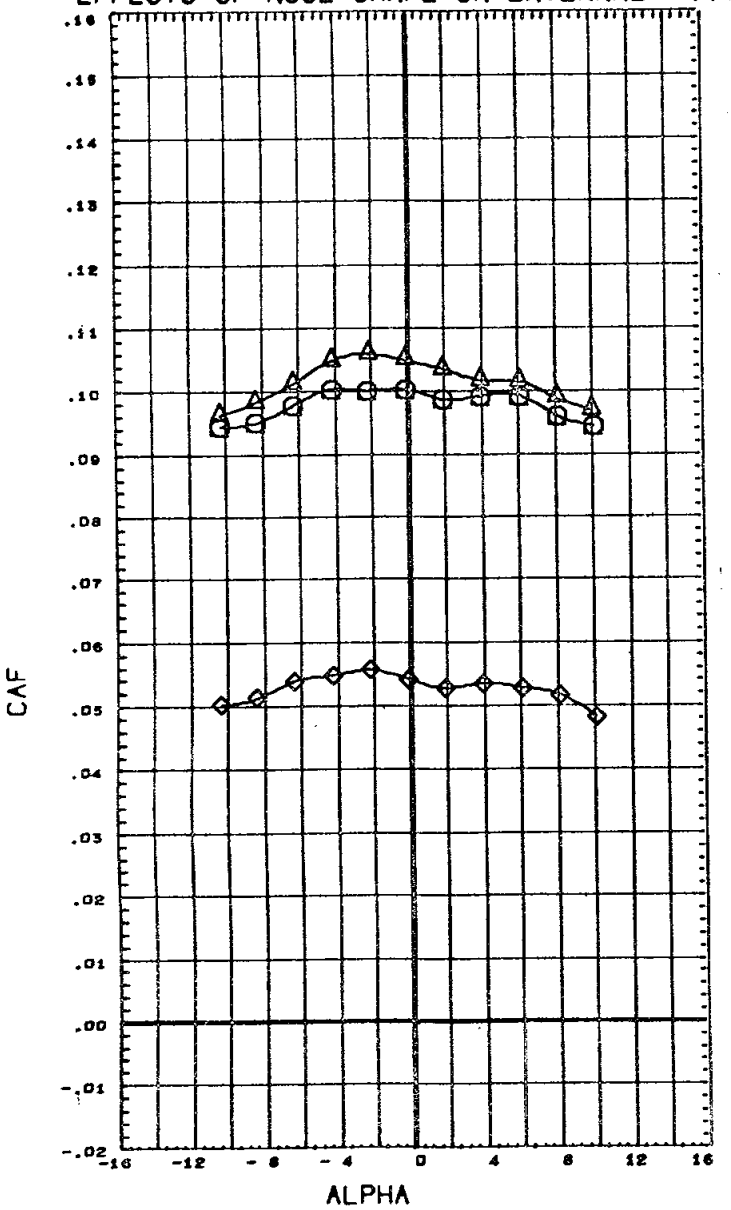
PHI	ORBINC	RUDDER	AILRON

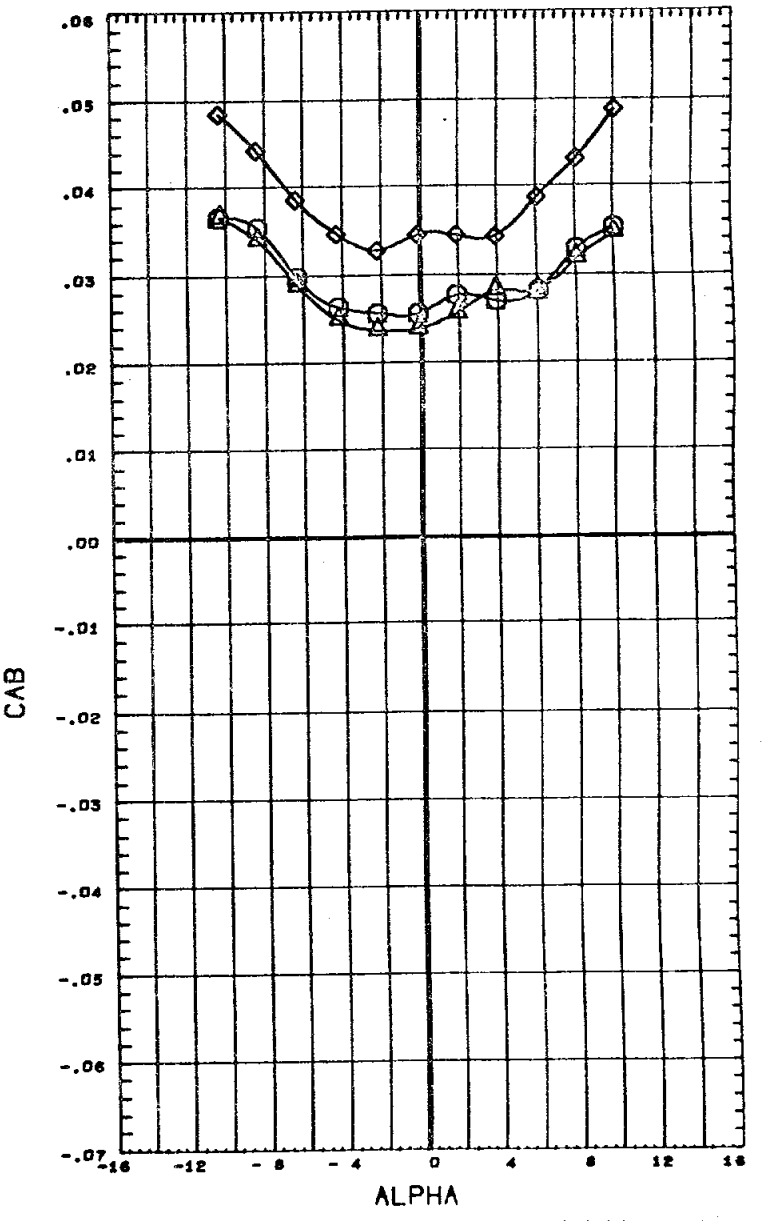
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





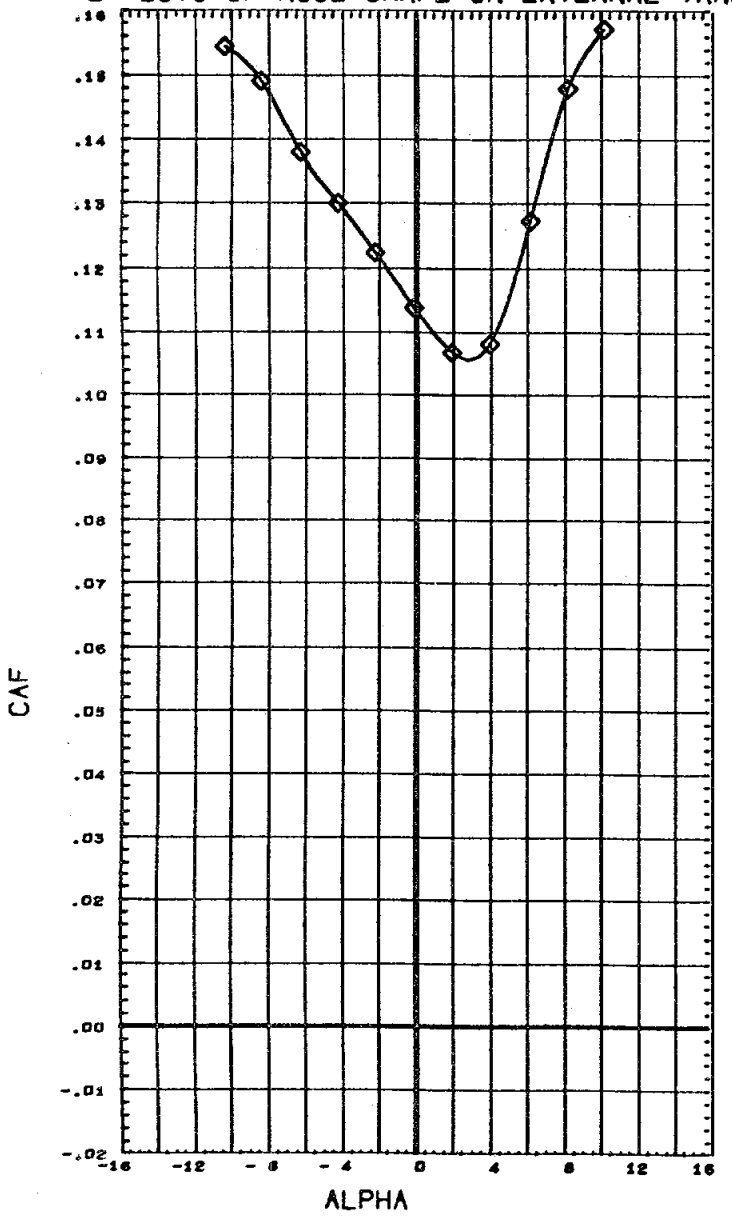
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

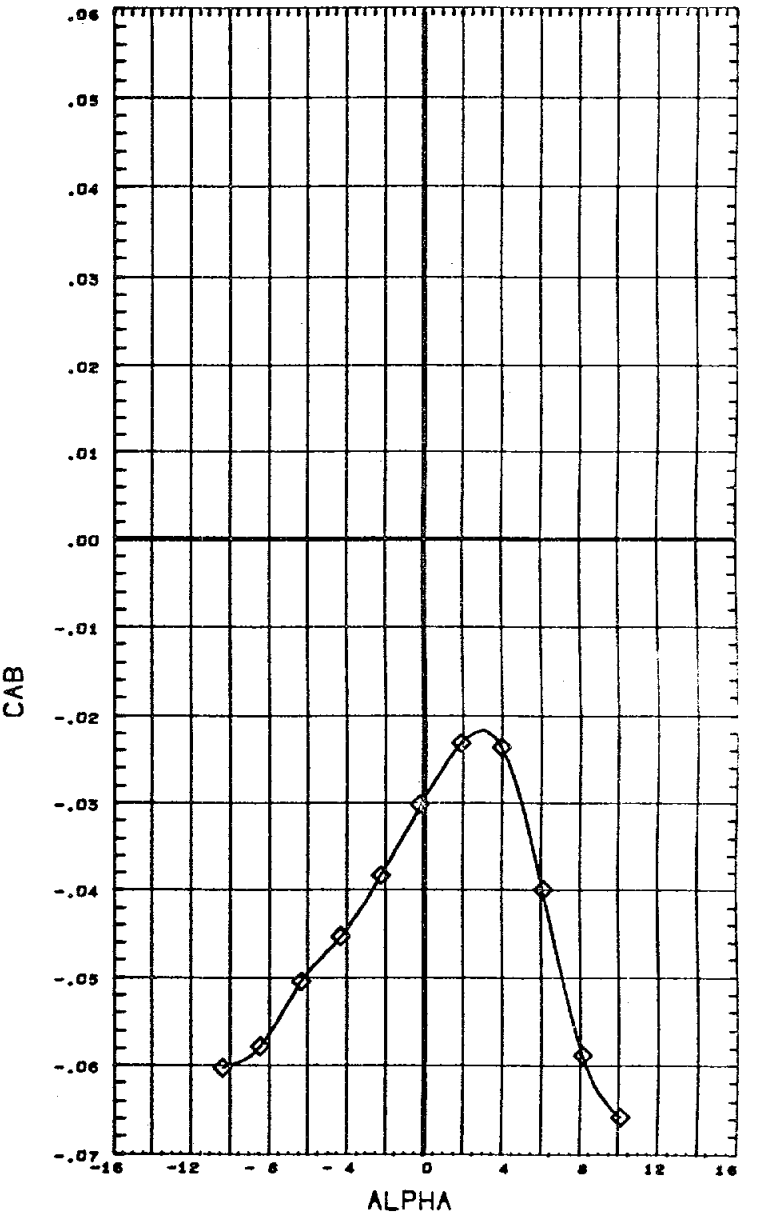
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

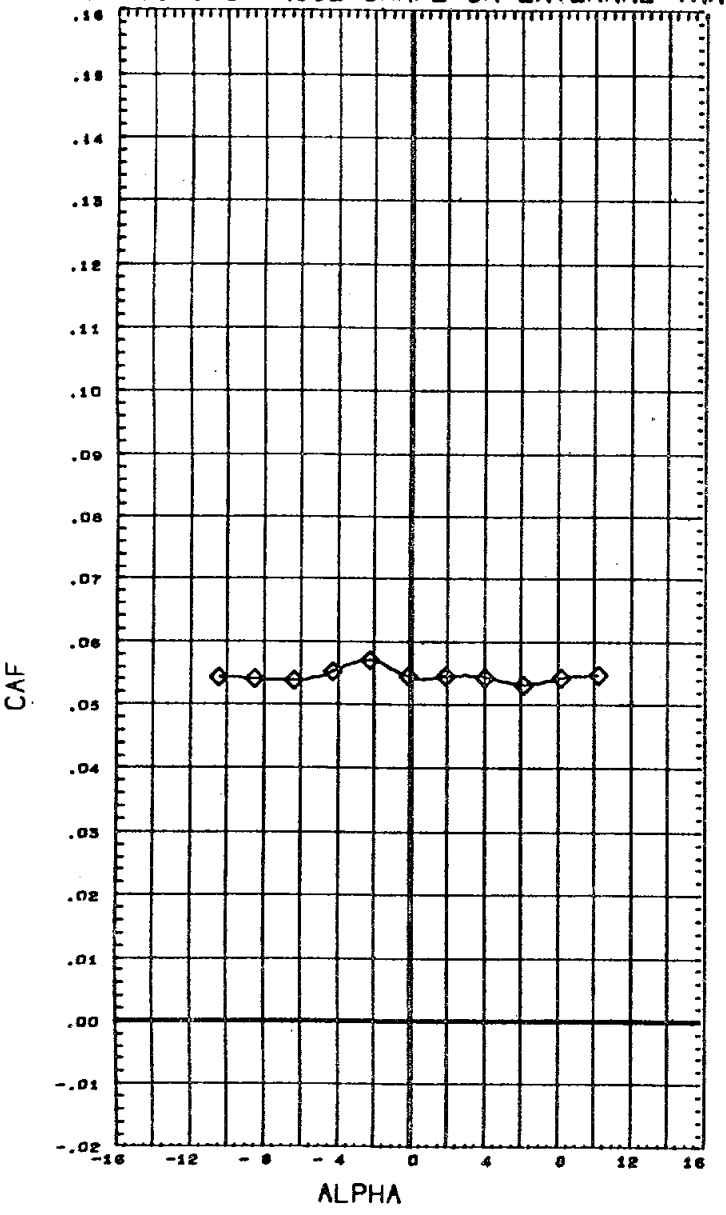
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK

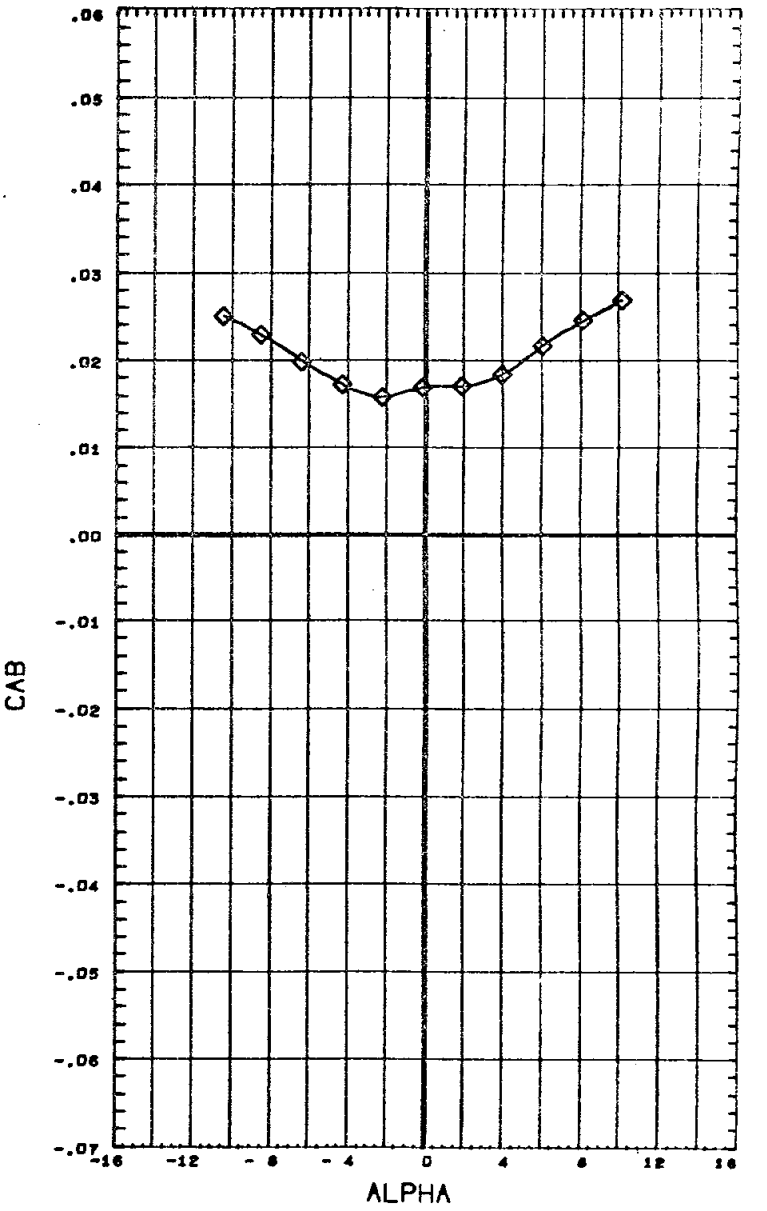


DATA SET SYMBOL CONFIGURATION DESCRIPTION

(G77033) ○ DATA NOT AVAILABLE FOR ALL CONDITIONS

(G77032) △ DATA NOT AVAILABLE FOR ALL CONDITIONS

(G77001) ◇ M556(IA1) NAR ATP BL LV (T3)



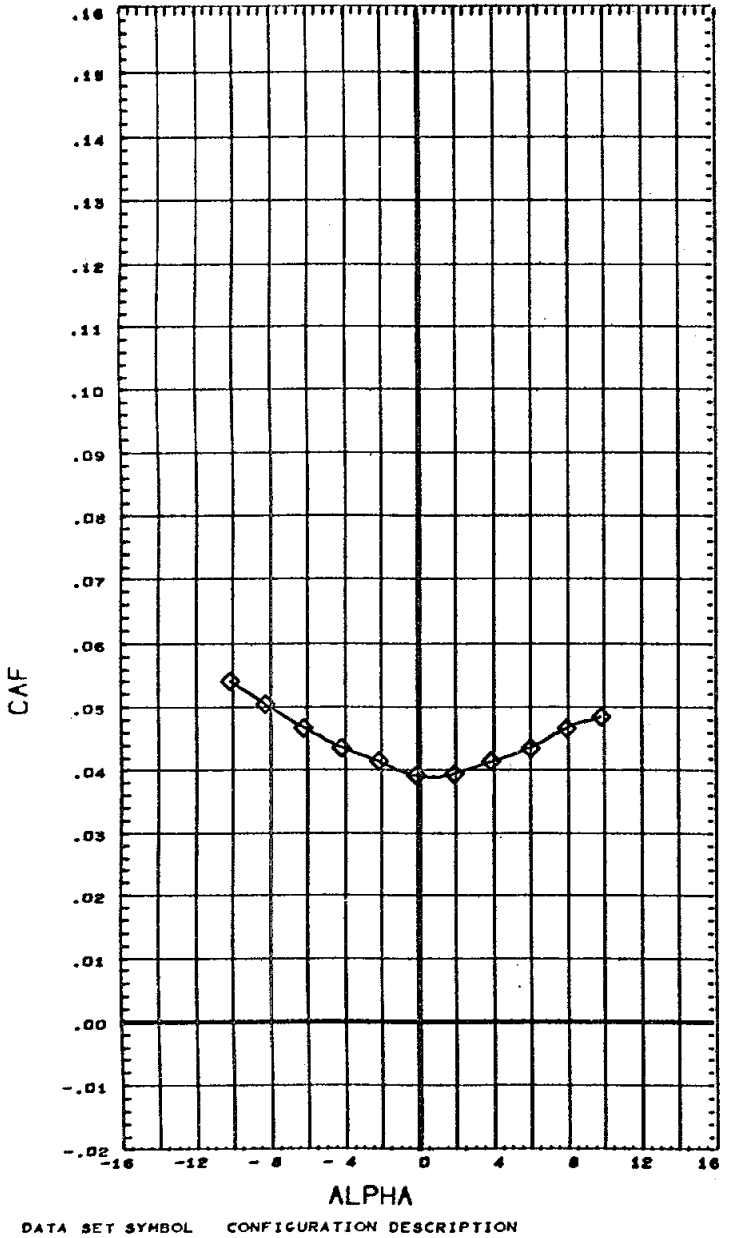
PHI ORBINC RUDDER AILRON

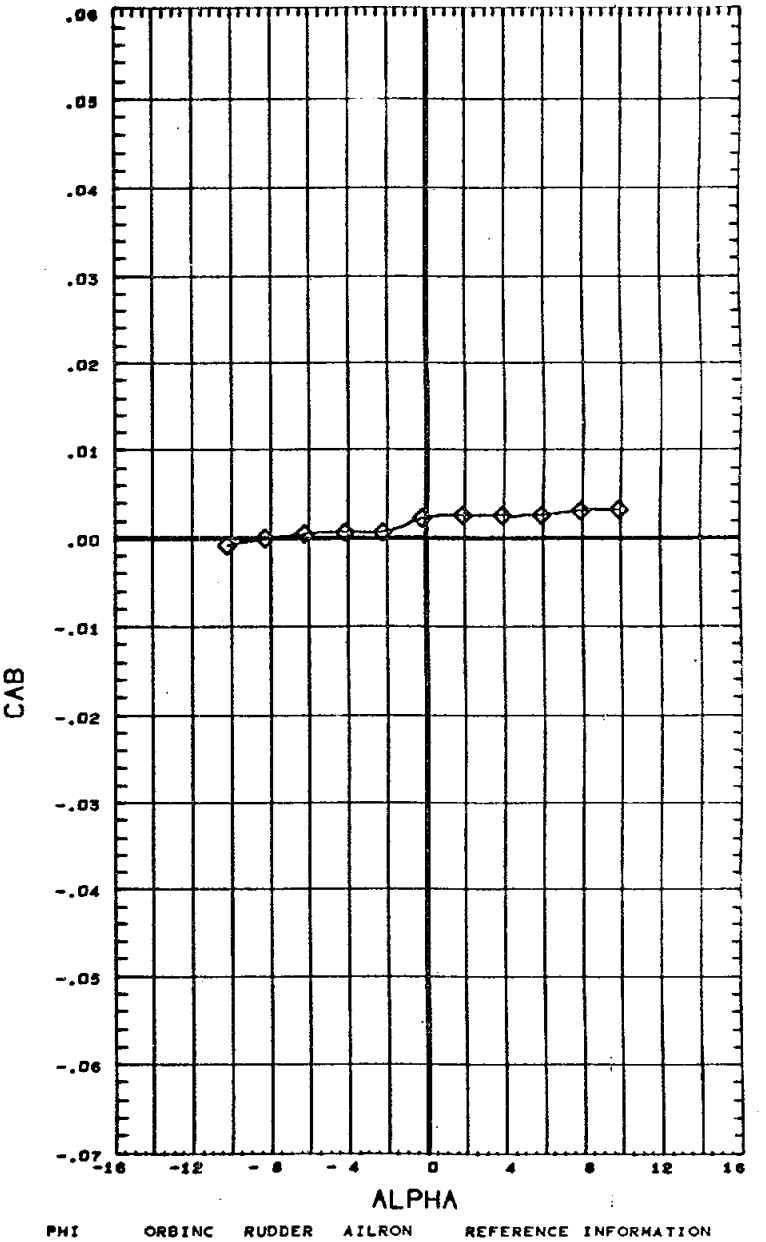
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





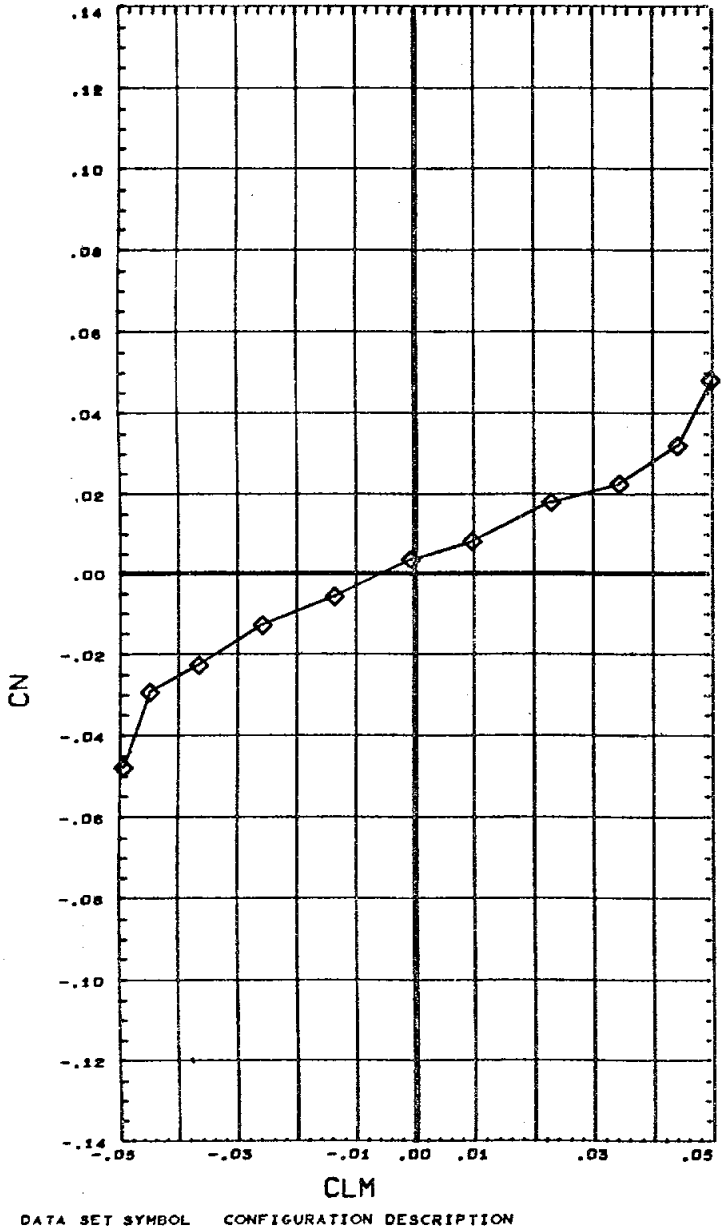
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

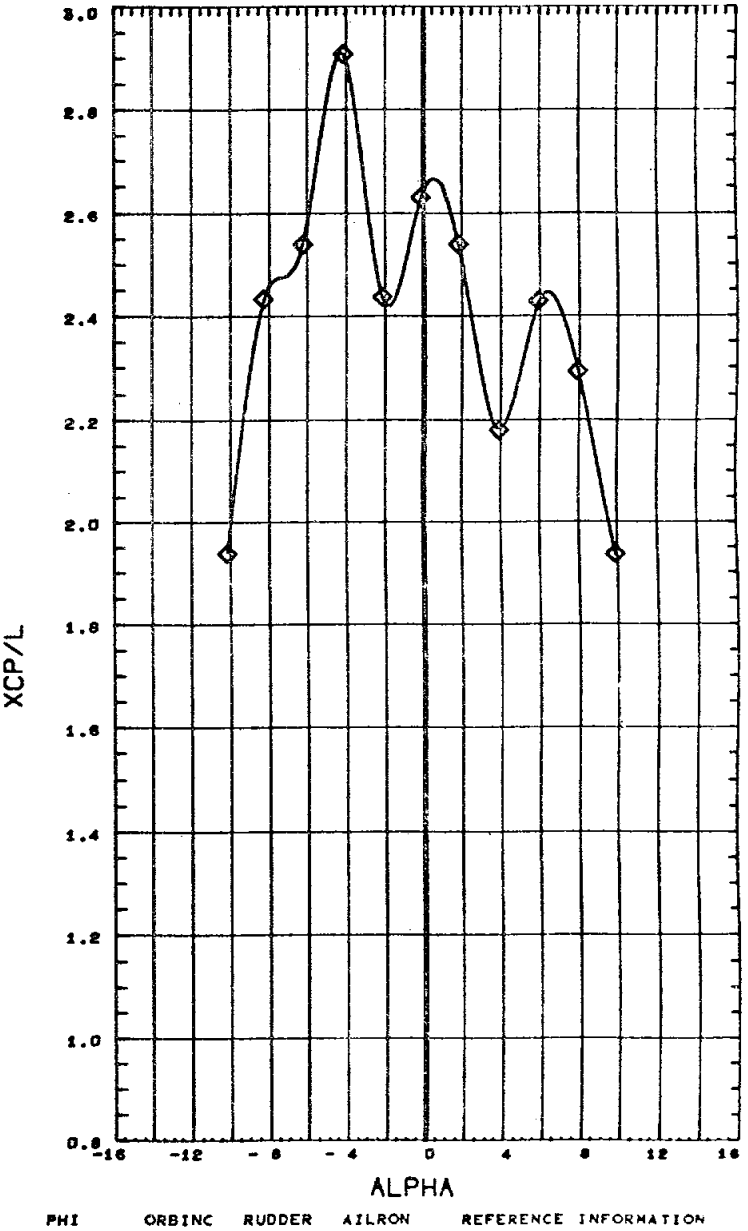
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

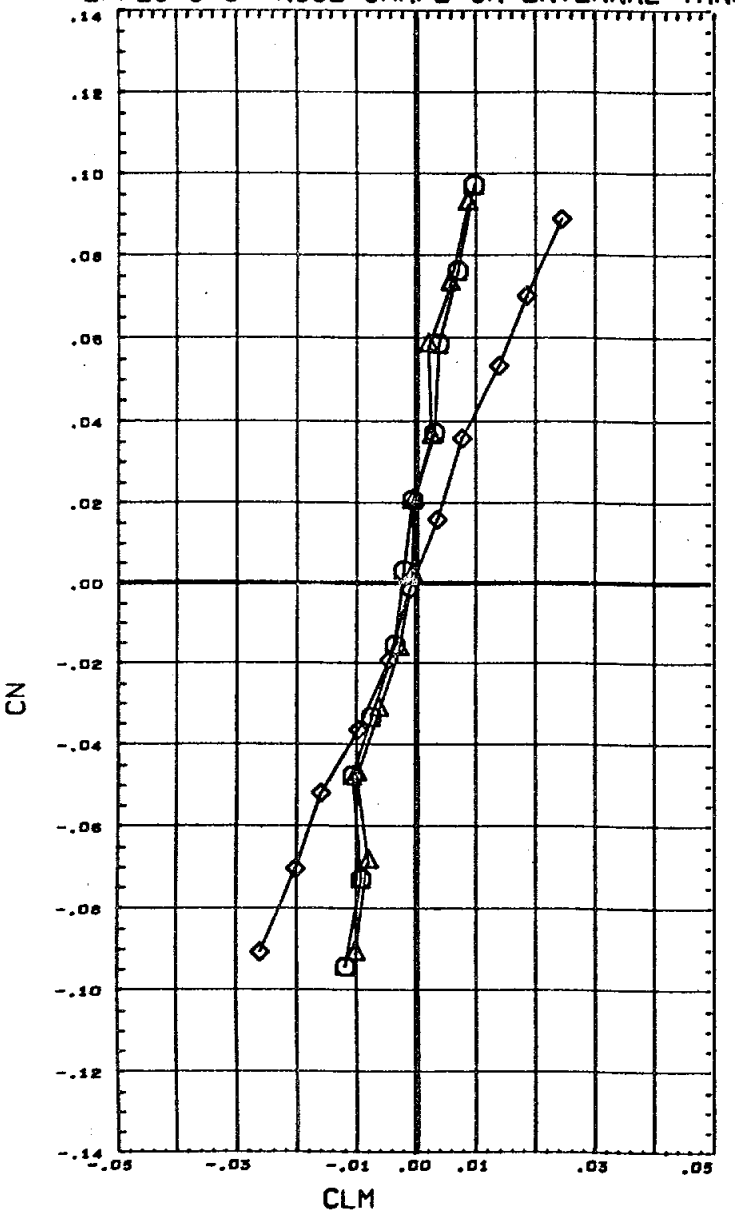
PHI	ORBINC	RUDDER	AILRON

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

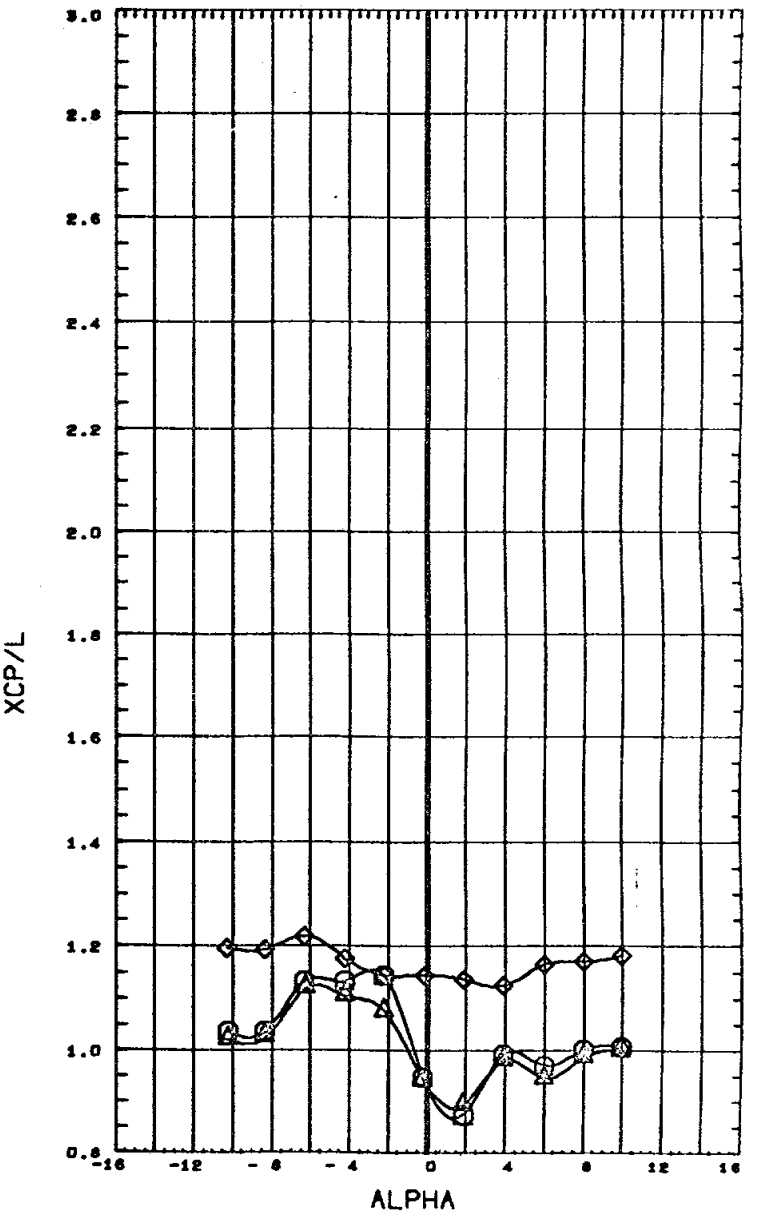
MACH .60

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(G77033) M556(IA1) NAR ATP BL LV (T1)
(G77032) M556(IA1) NAR ATP BL LV (T2)
(G77001) M556(IA1) NAR ATP BL LV (T3)



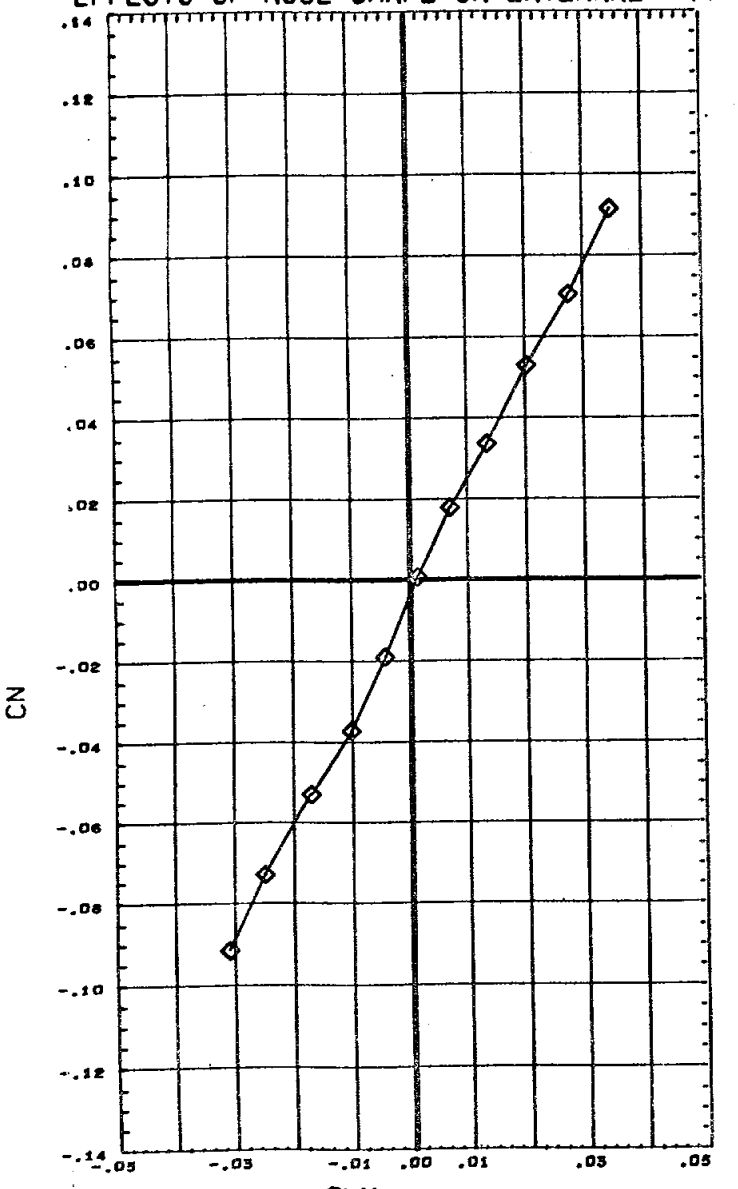
PHI ORBINC RUDDER AILRON

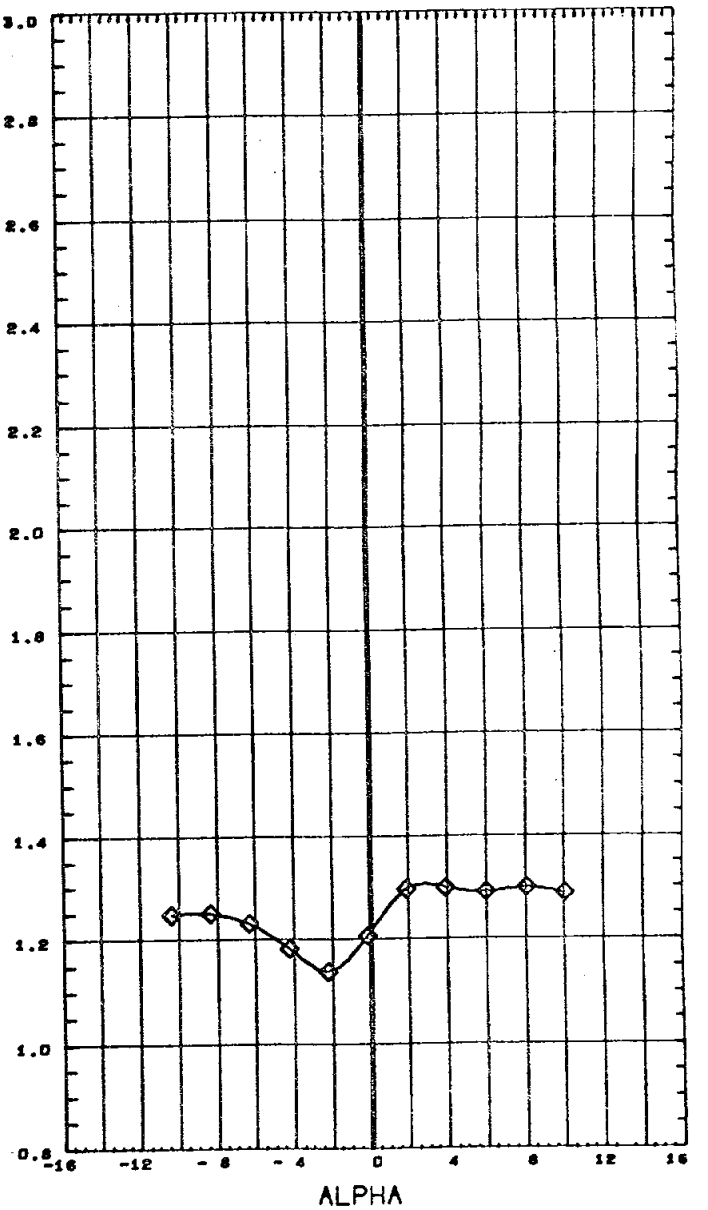
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(677033) DATA NOT AVAILABLE FOR ALL CONDITIONS

(677032) DATA NOT AVAILABLE FOR ALL CONDITIONS

(677001) M556(IA1) NAR ATP BL LV (T3)

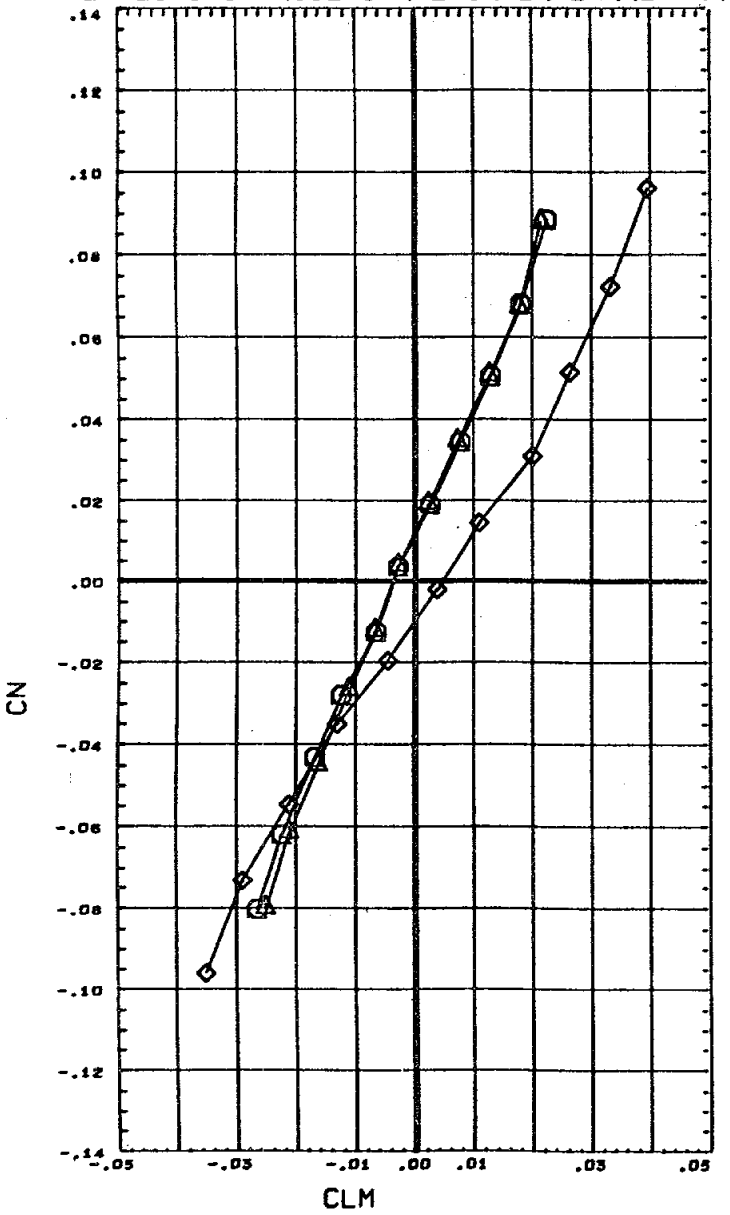
PHI	ORBINC	RUDDER	AILRON

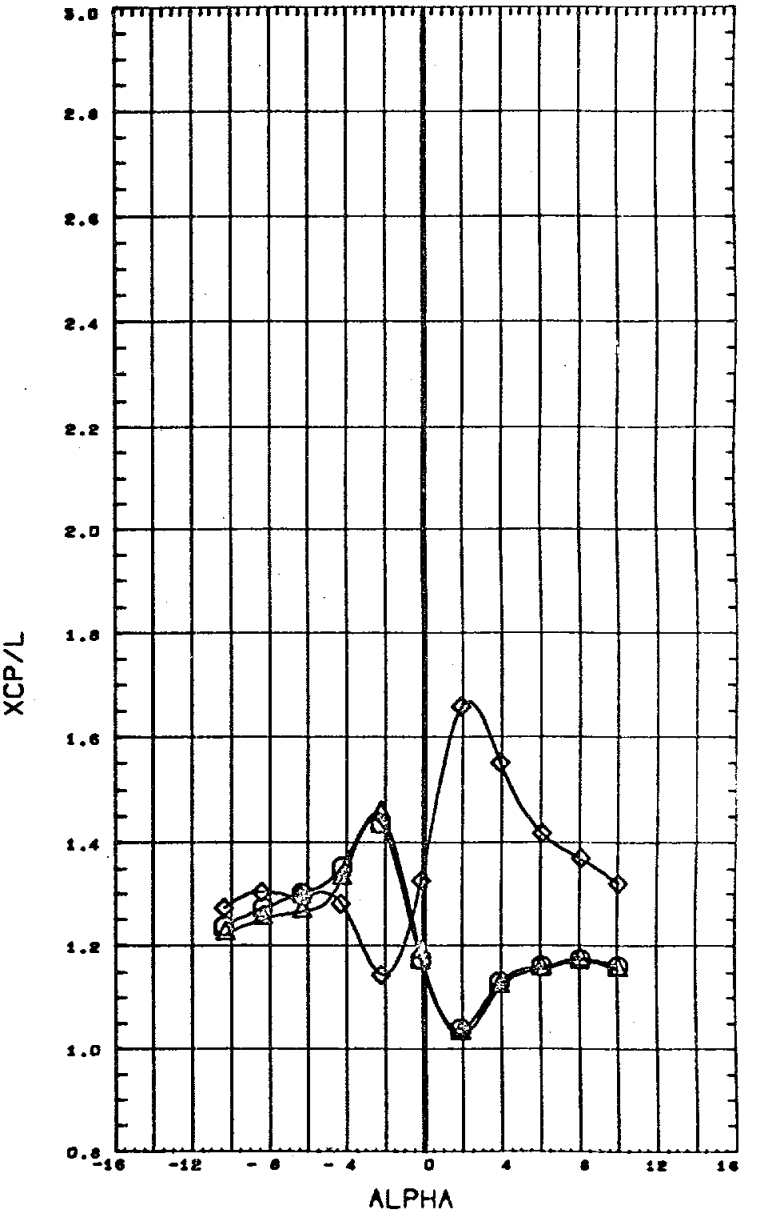
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

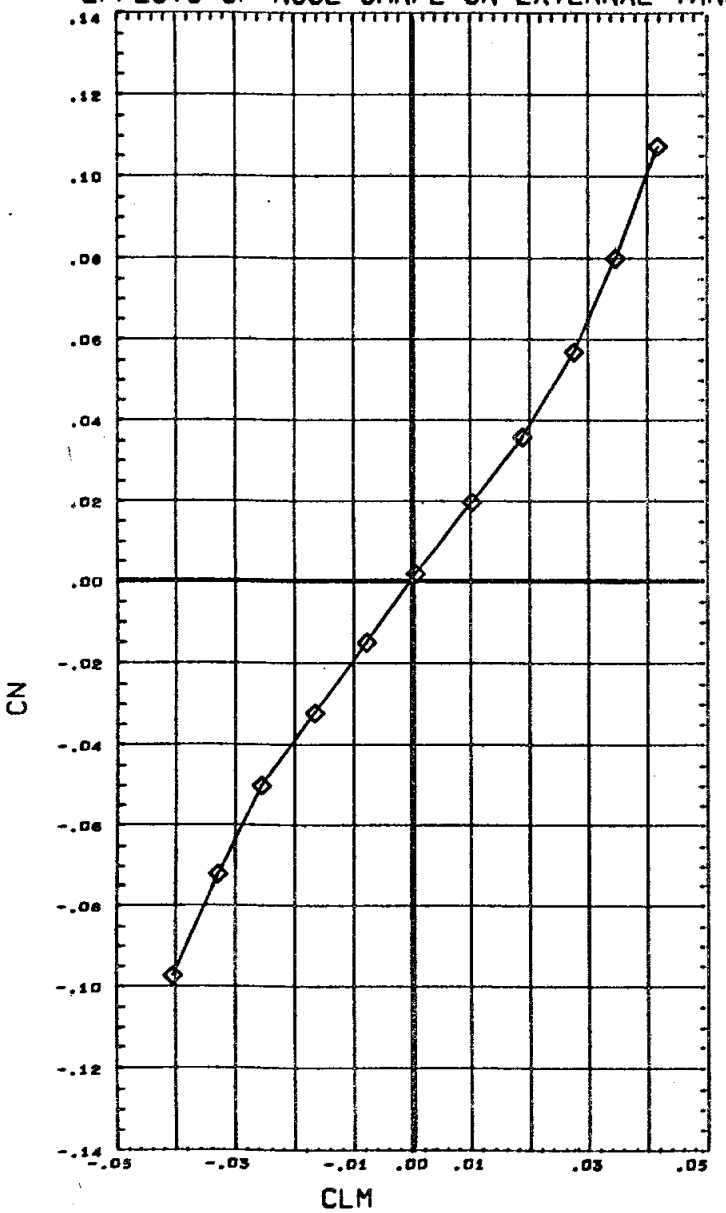
PHI	ORBINC	RUDDER	AILRON

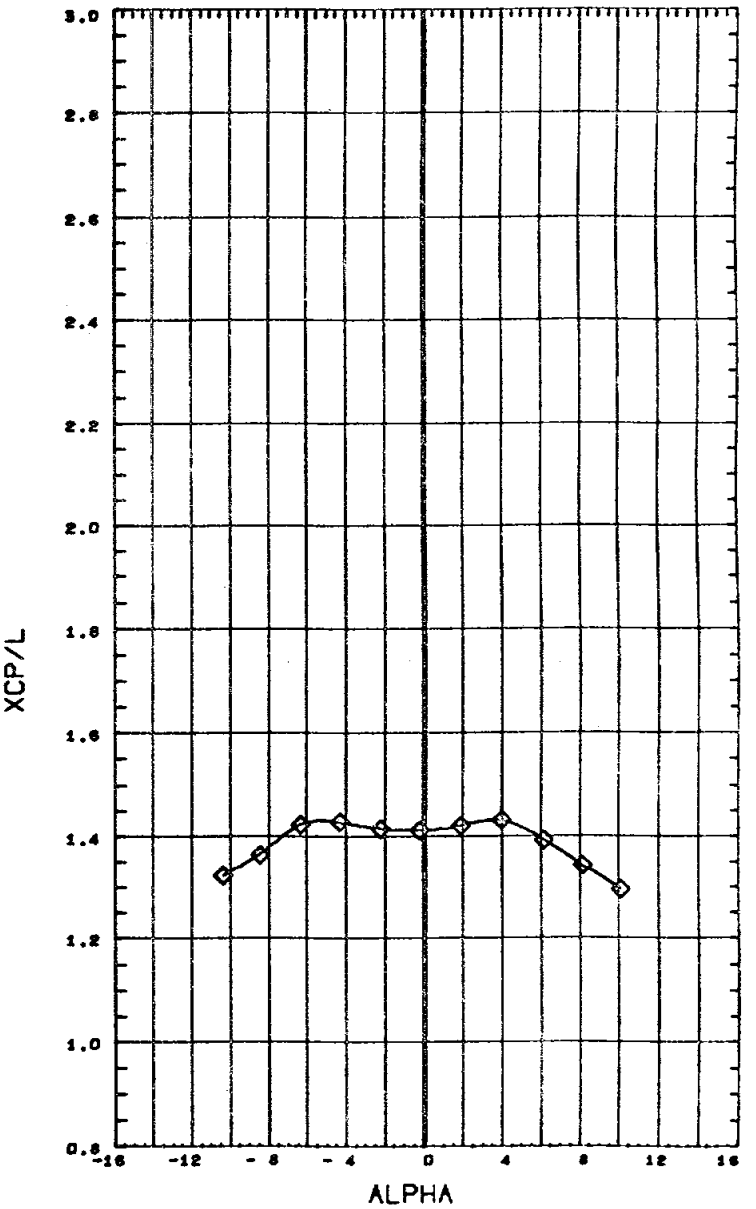
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





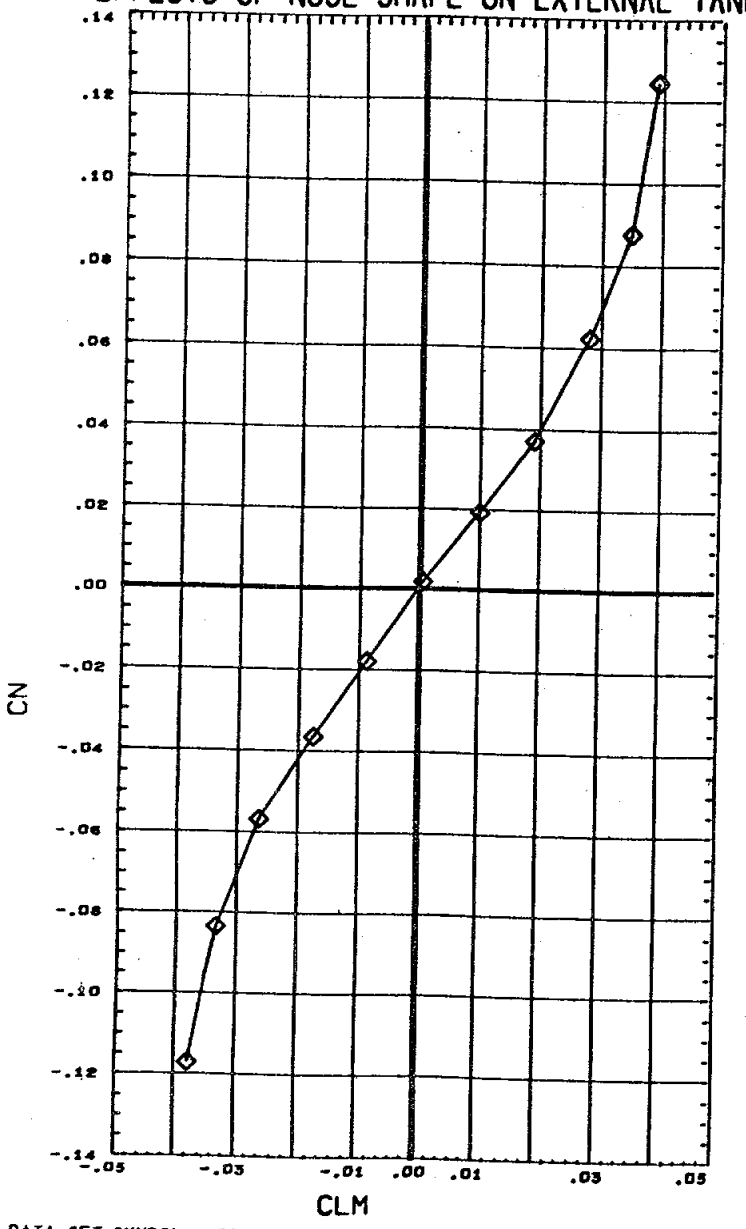
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

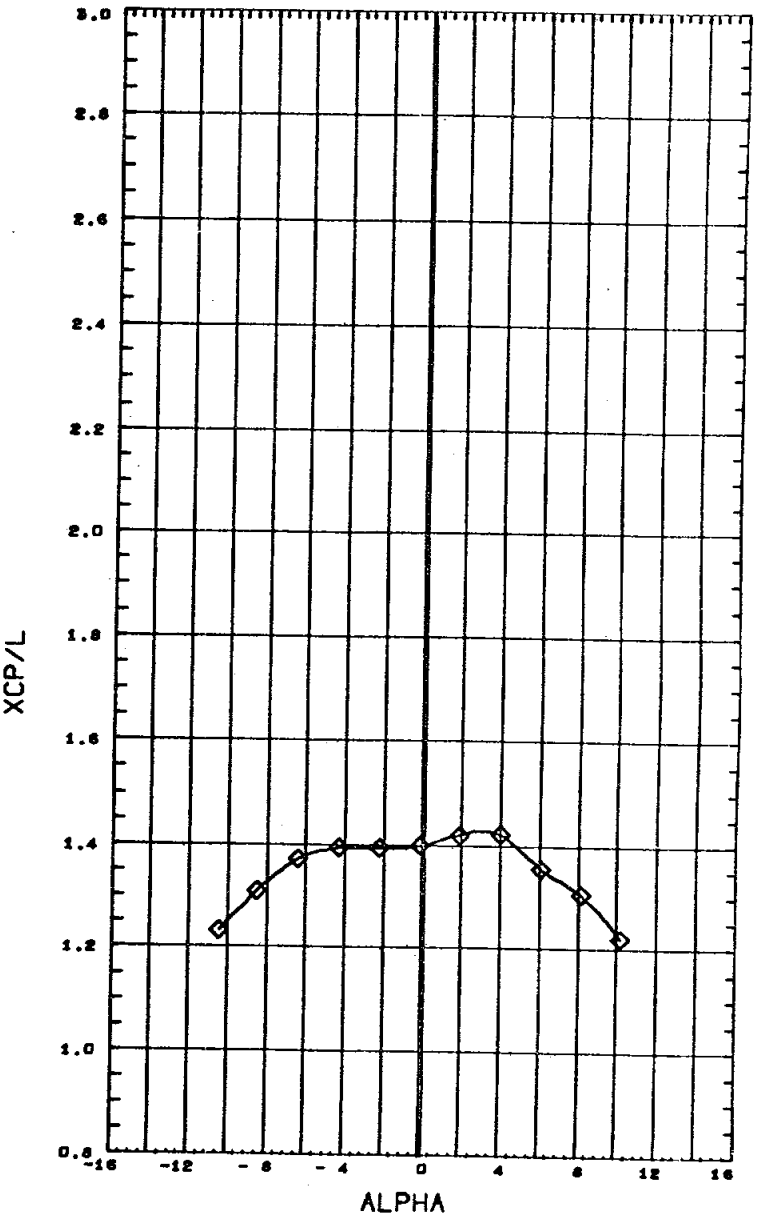
PHI	ORBINC	RUDDER	AILRON

REFERENCE INFORMATION		
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(677001)	◇	M556(IA1) NAR ATP BL LV (T3)

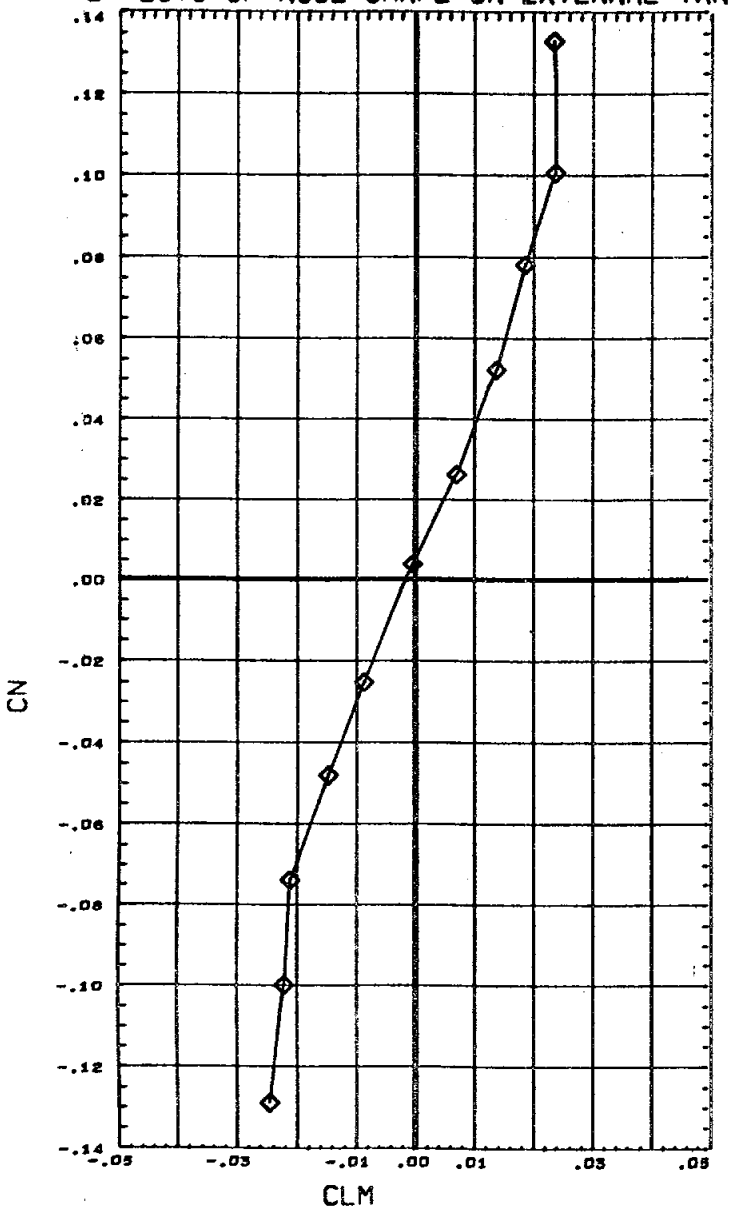
PHI ORBINC RUDDER AILRON

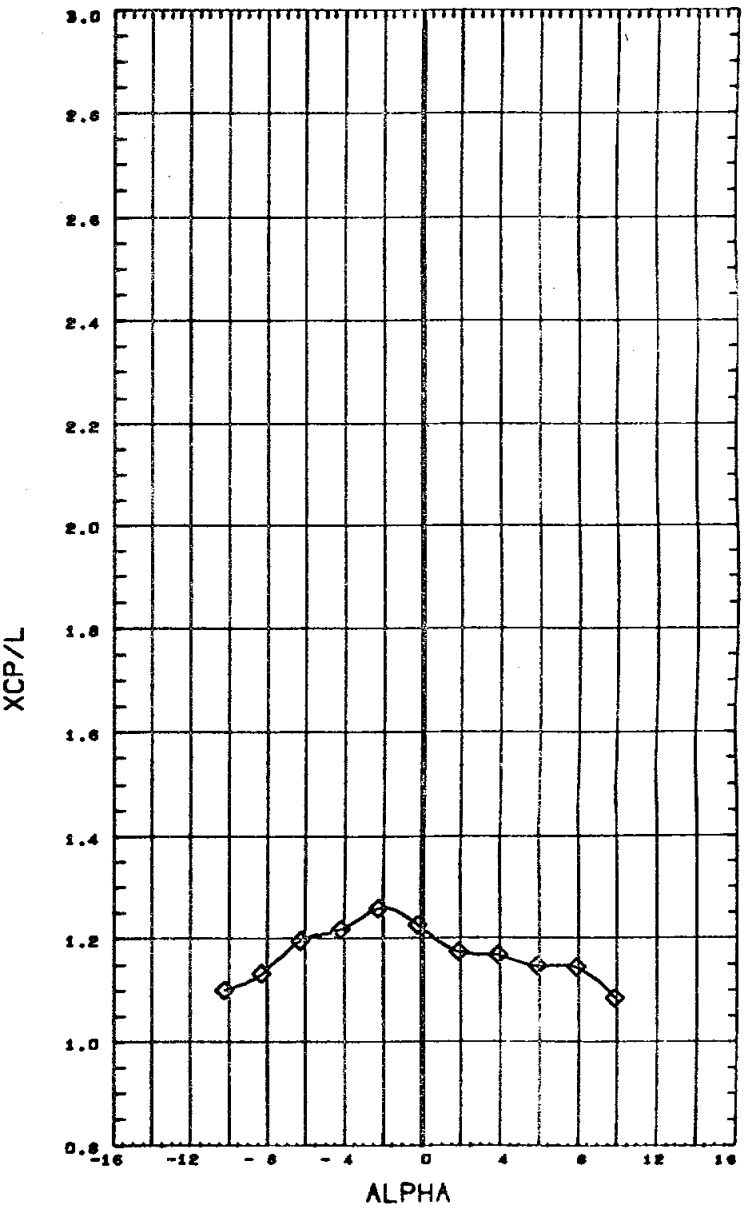
REFERENCE INFORMATION

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BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77032)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

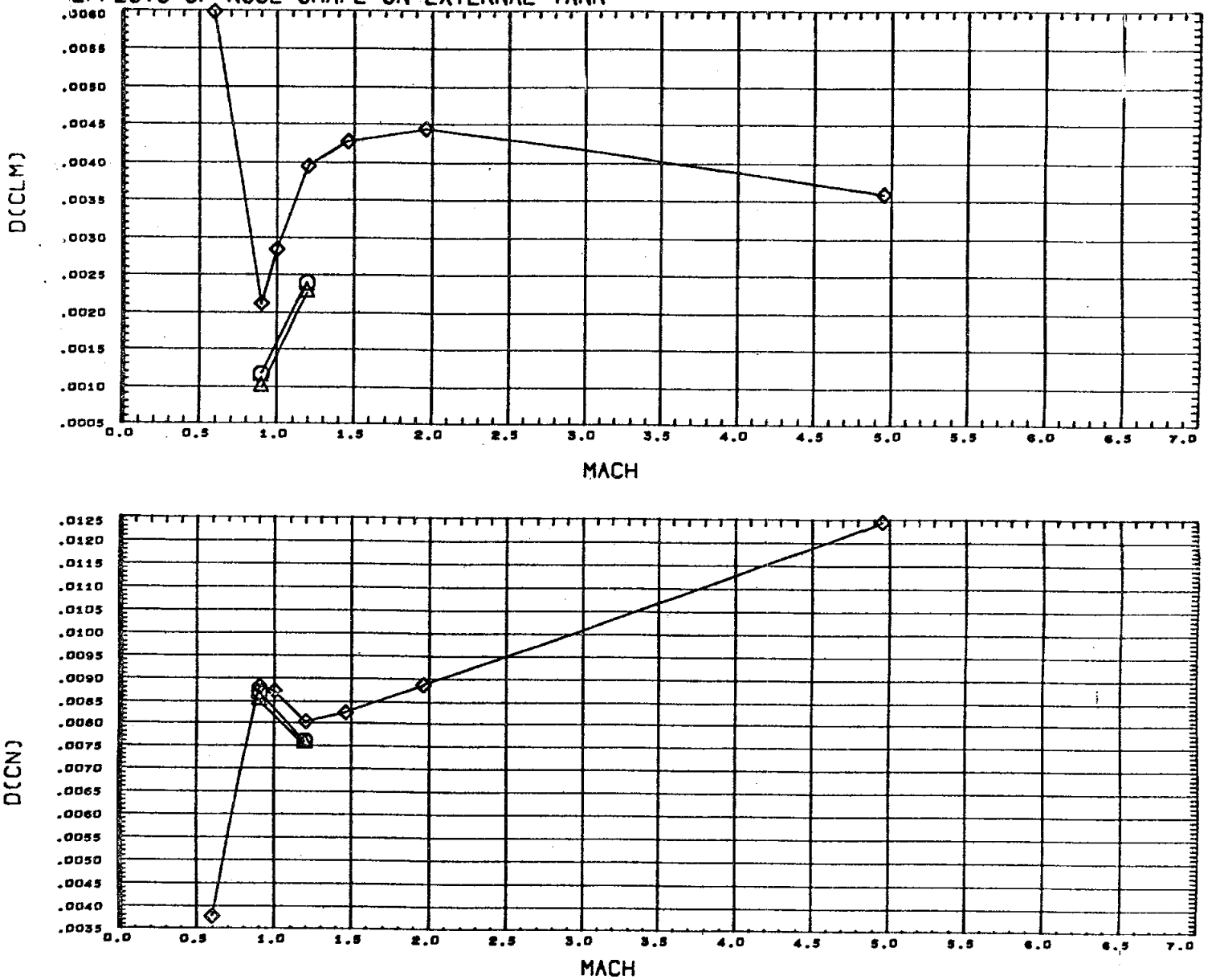
PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK

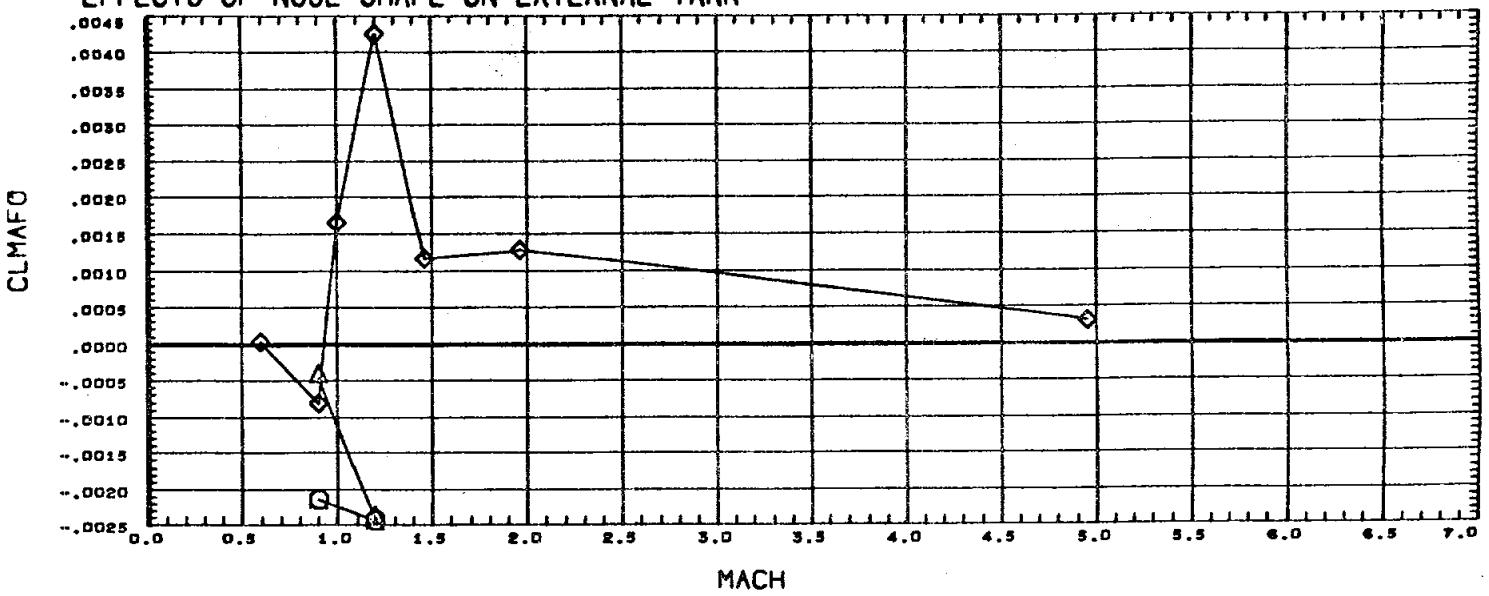


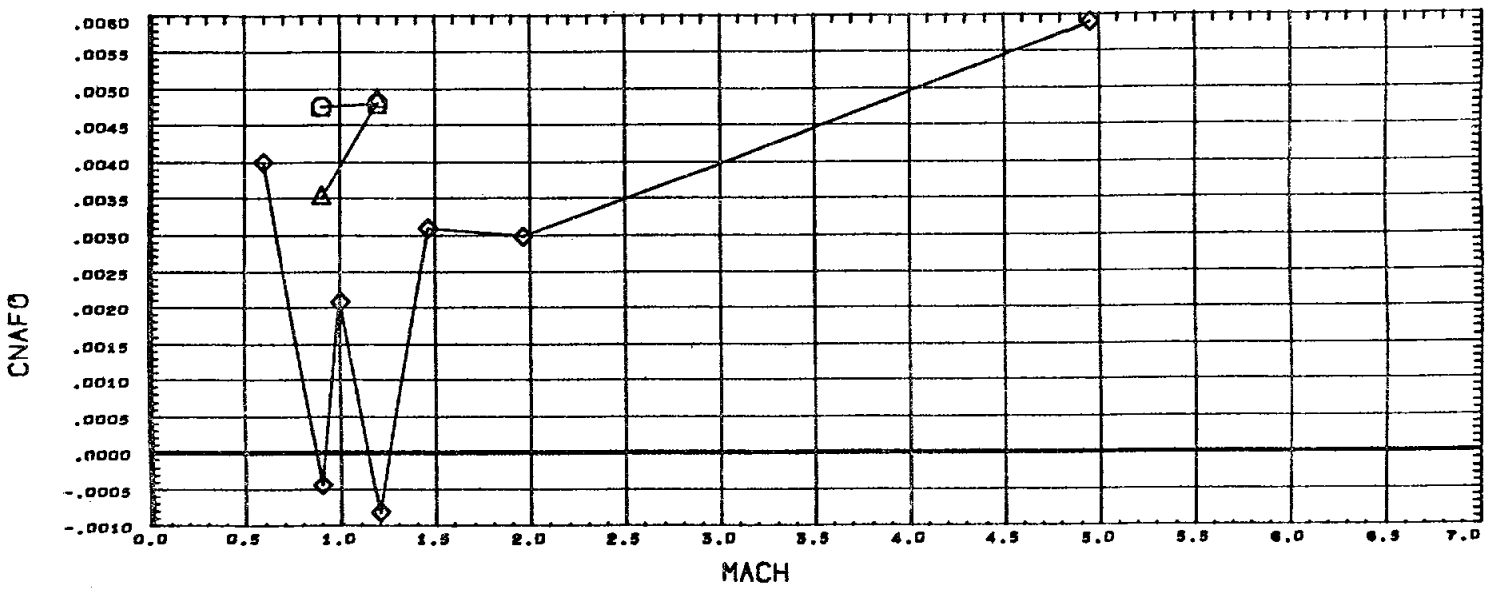
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677033)	○	M556(IA1) NAR ATP BL LV (T1)
(677032)	△	M556(IA1) NAR ATP BL LV (T2)
(677001)	◇	M556(IA1) NAR ATP BL LV (T3)

PHI	ORBINC	RUDDER	AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK



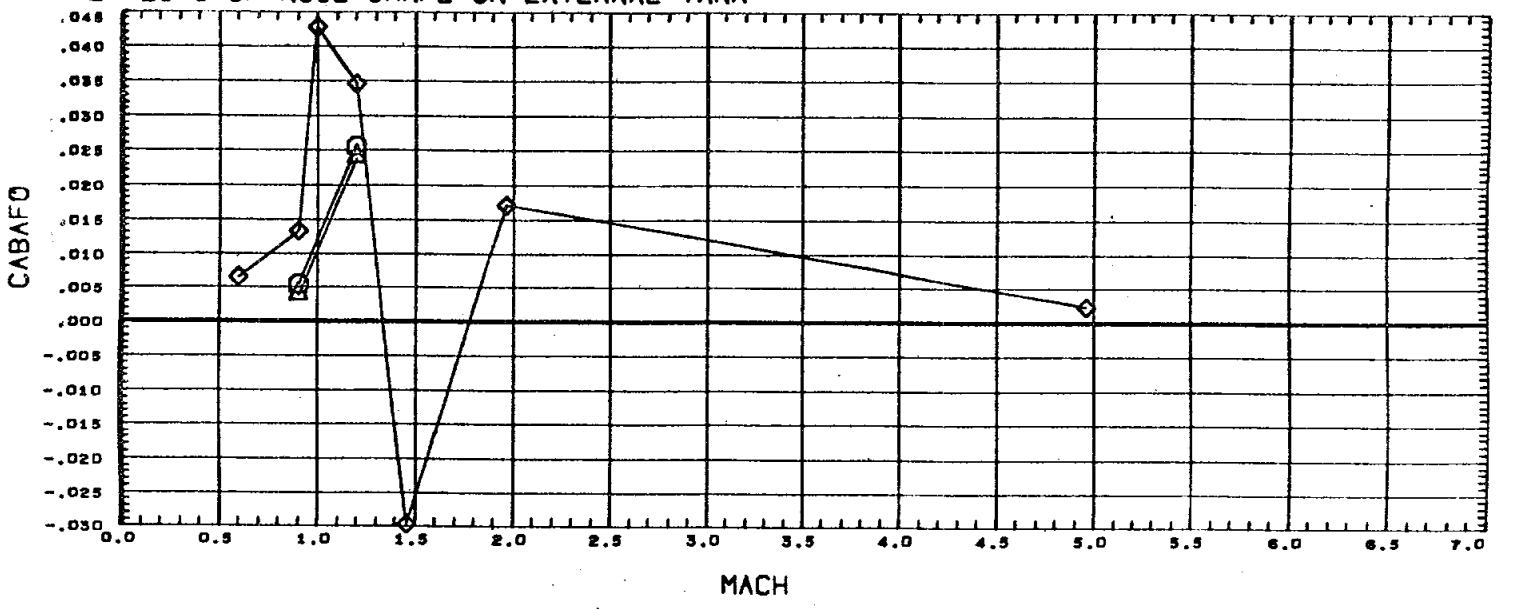


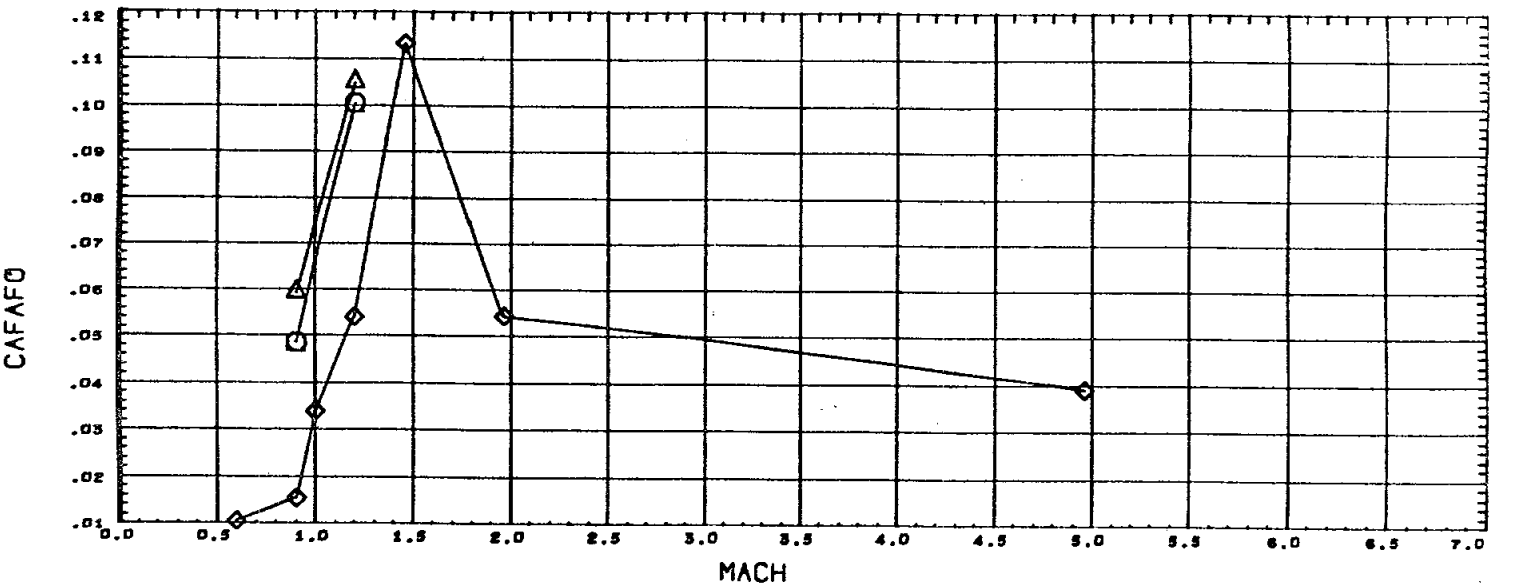
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK



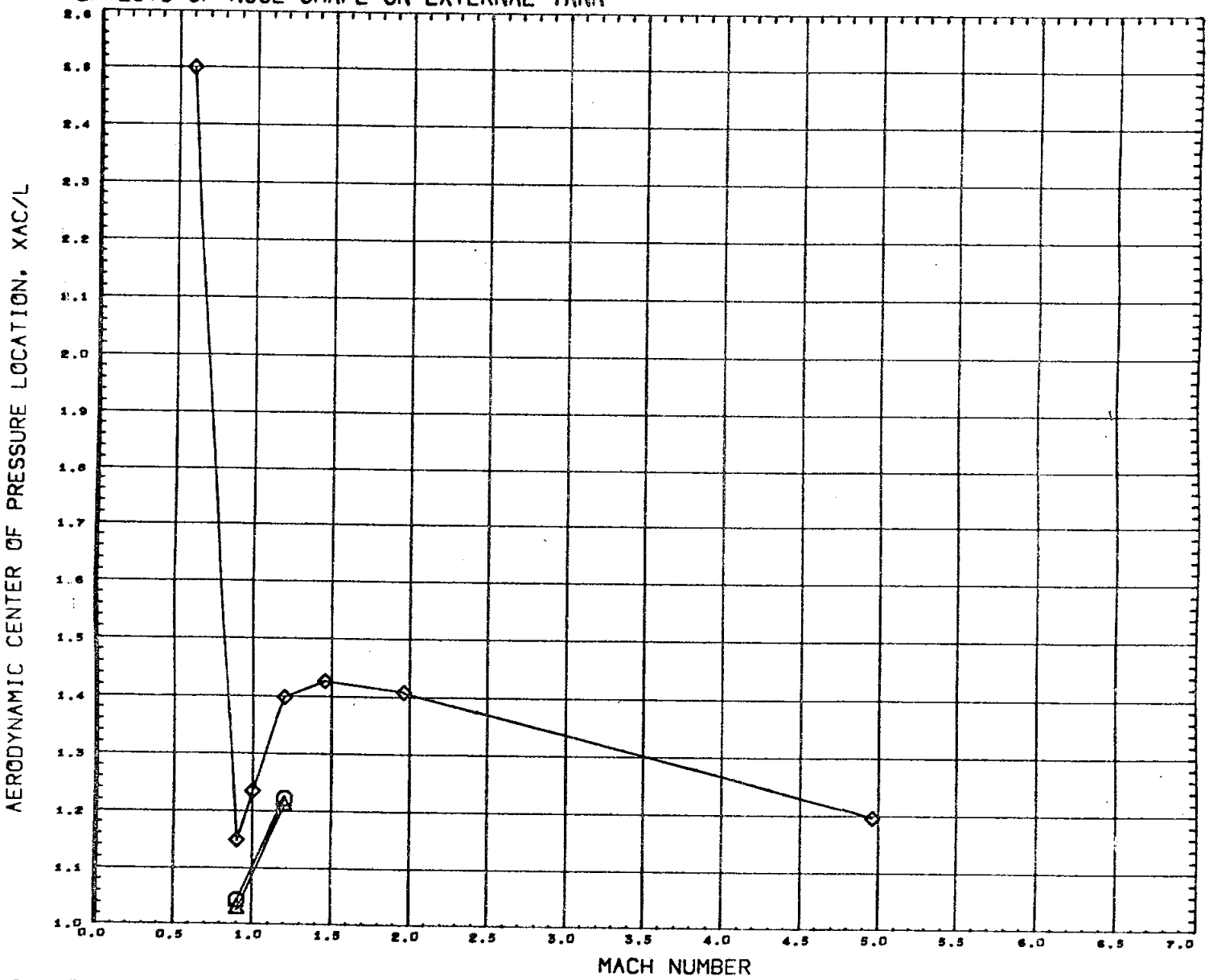


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

PHI ORBINC RUDDER AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON EXTERNAL TANK

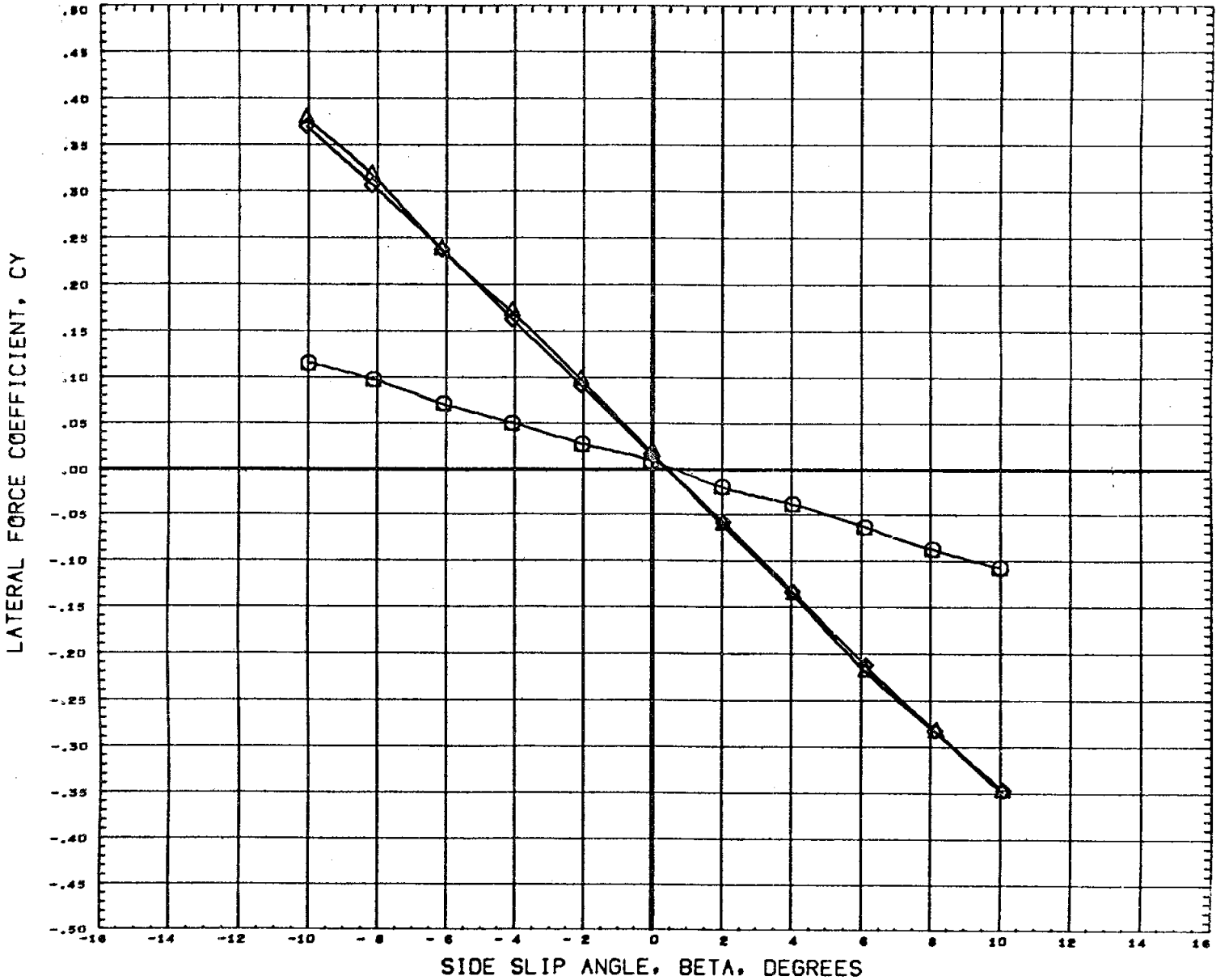


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(G77033)	○	M556(IA1) NAR ATP BL LV (T1)
(G77032)	△	M556(IA1) NAR ATP BL LV (T2)
(G77001)	◇	M556(IA1) NAR ATP BL LV (T3)

PHI	ORBINC	RUDDER	AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP



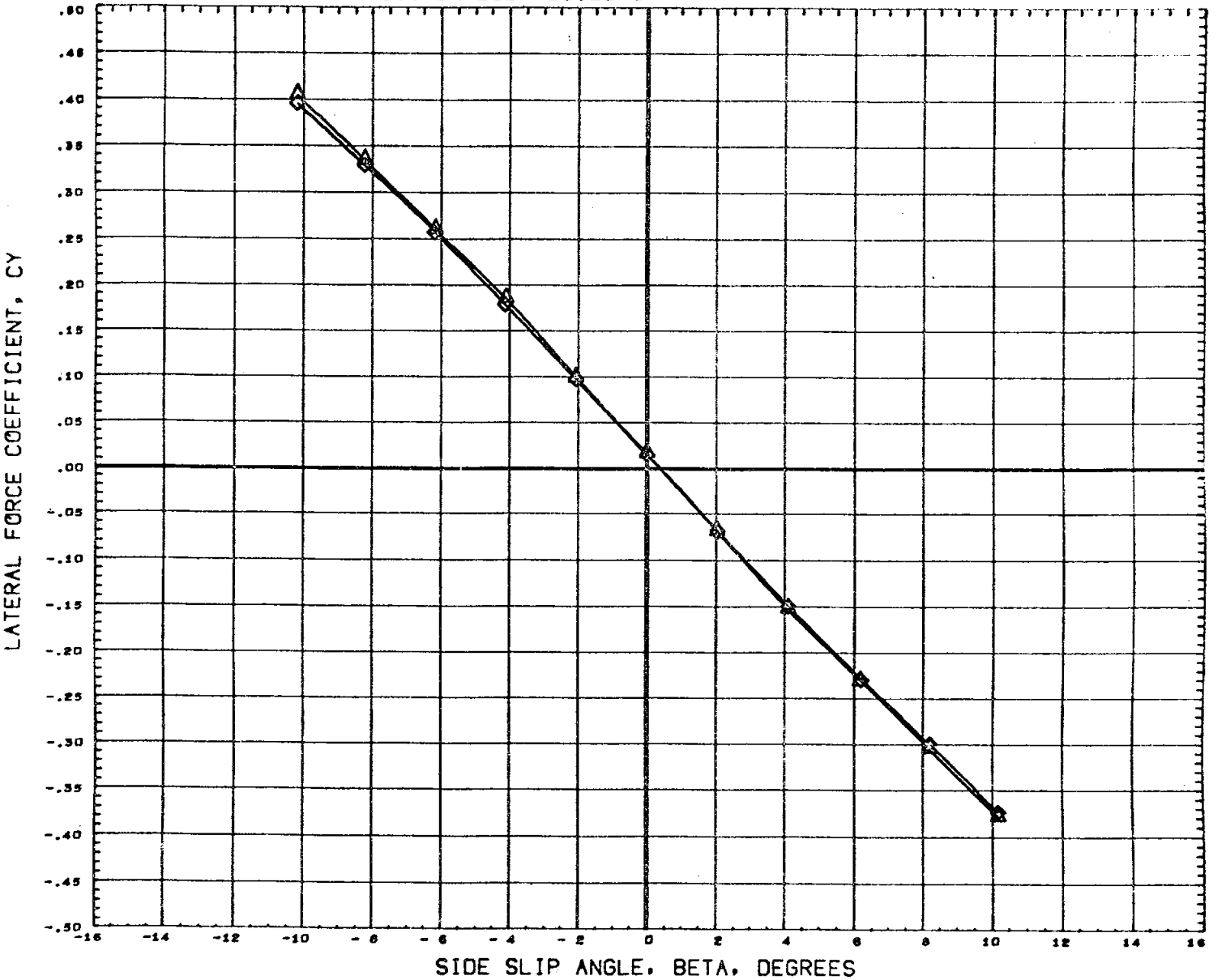
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

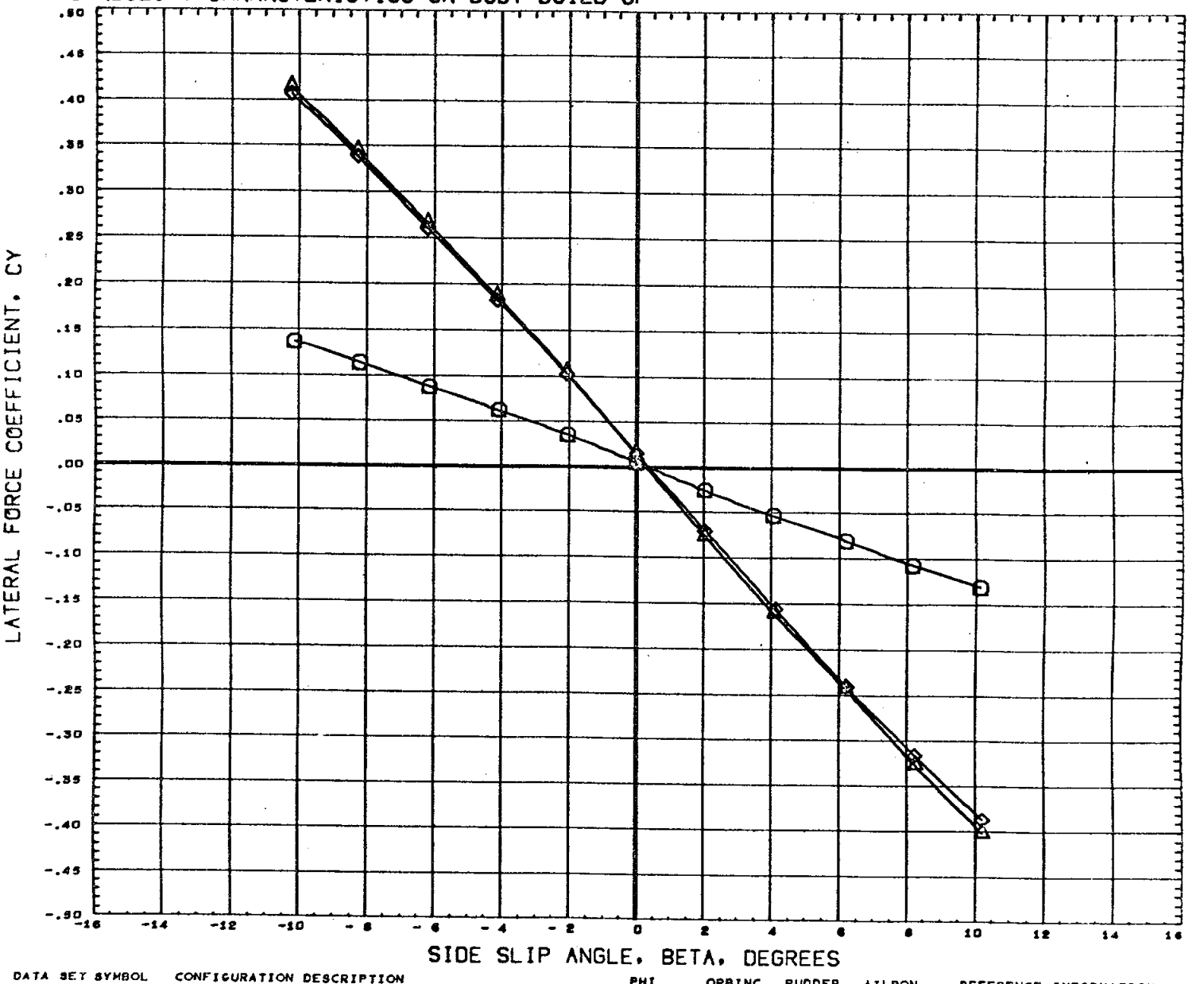


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP



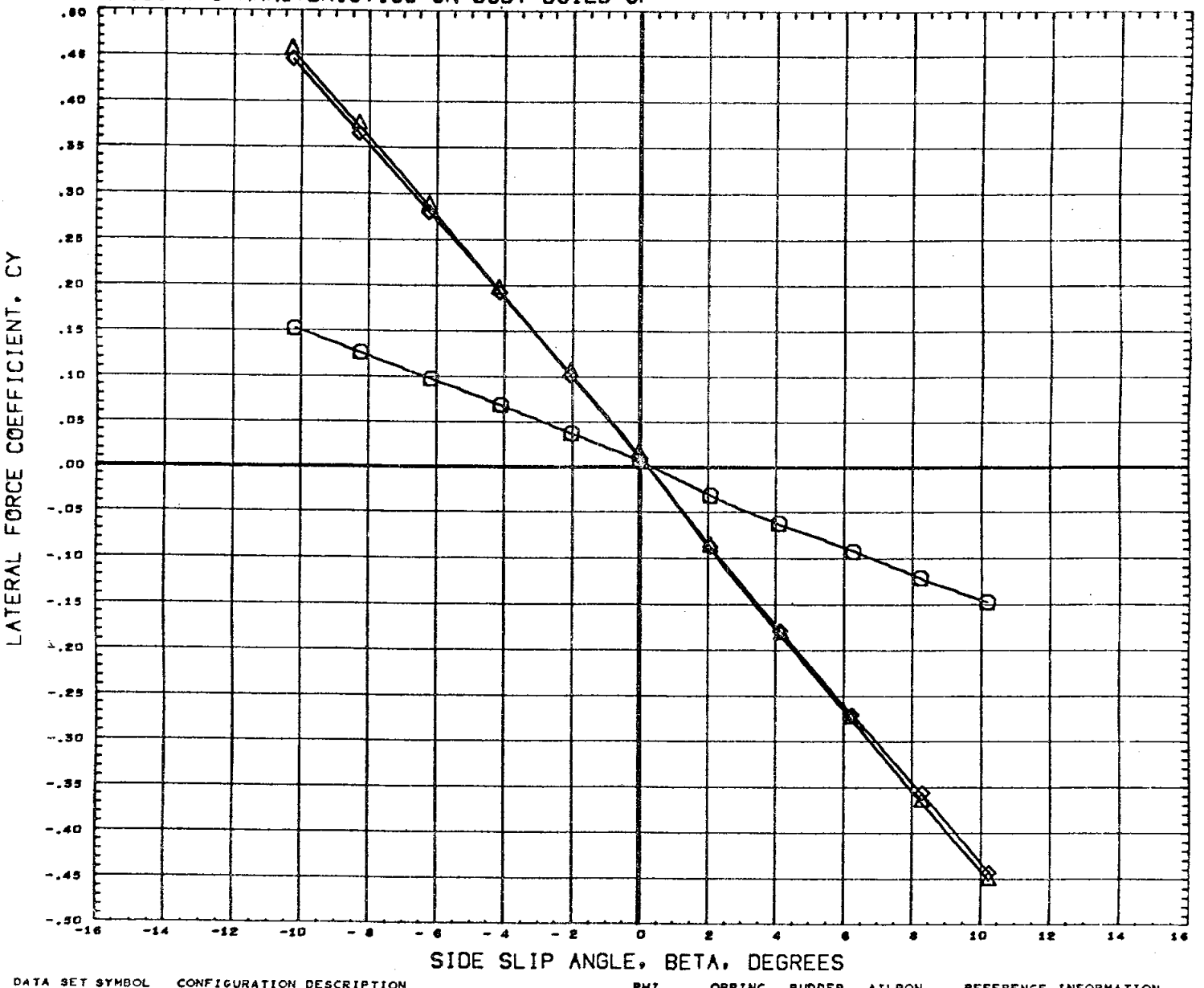
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP



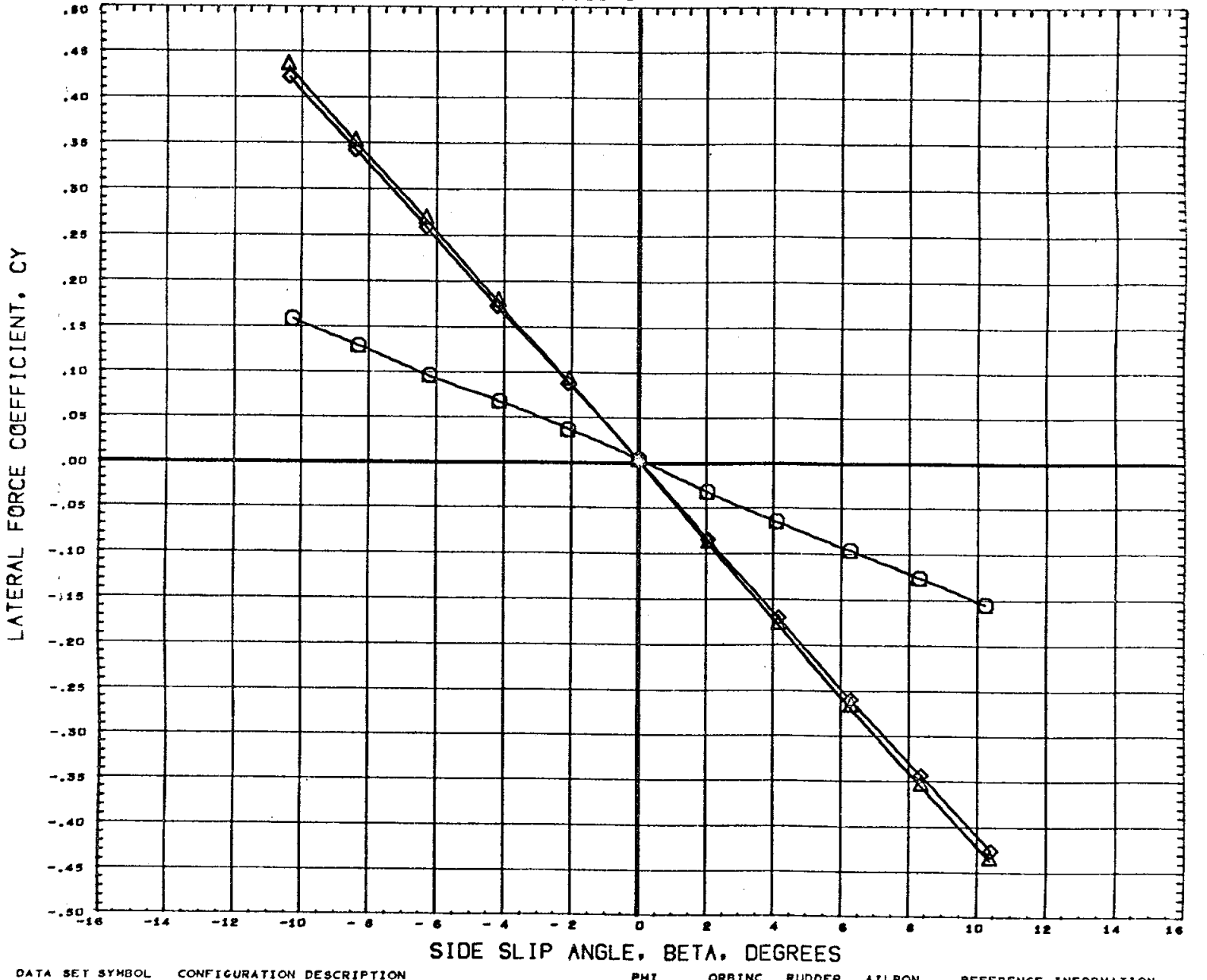
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP



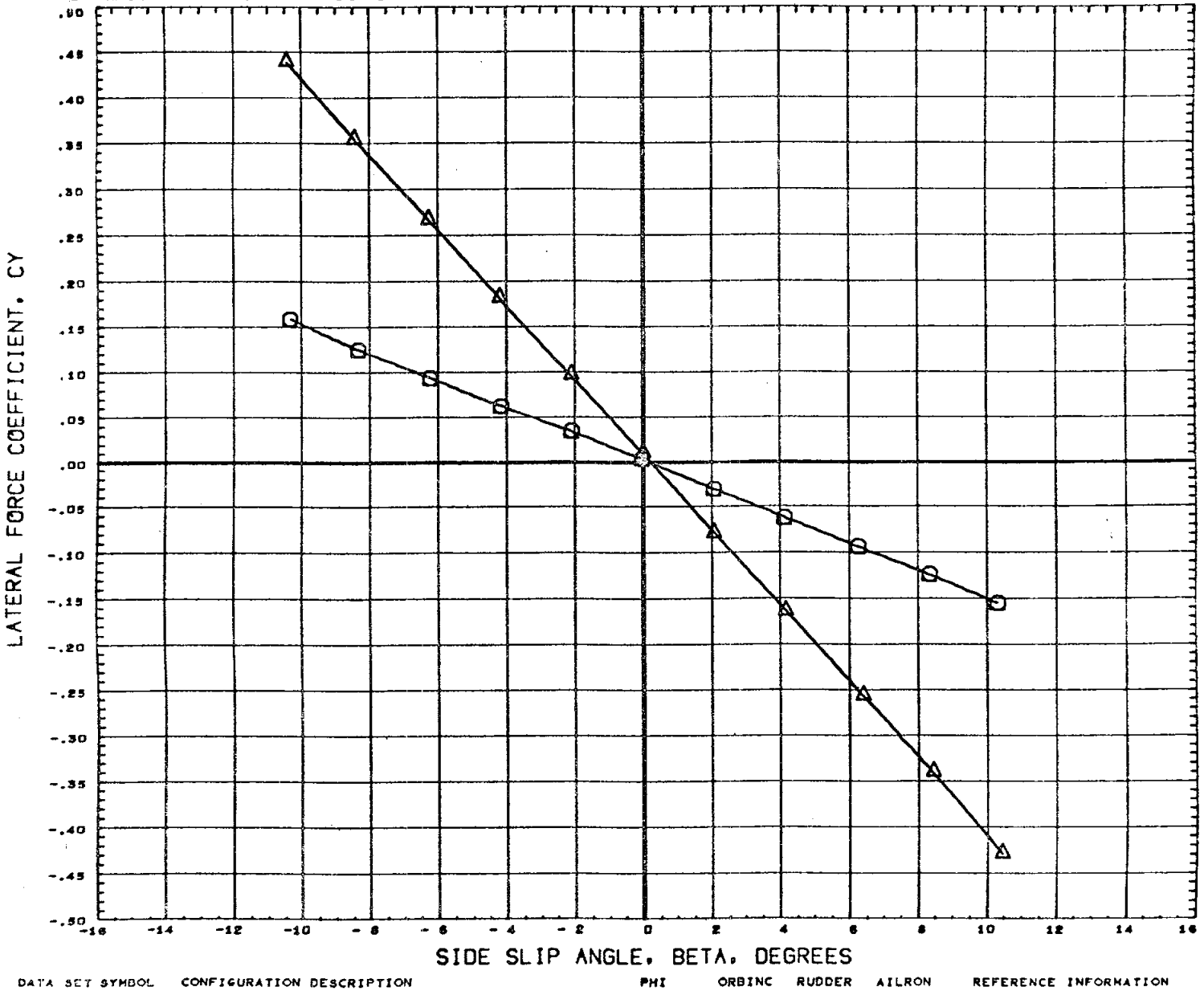
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

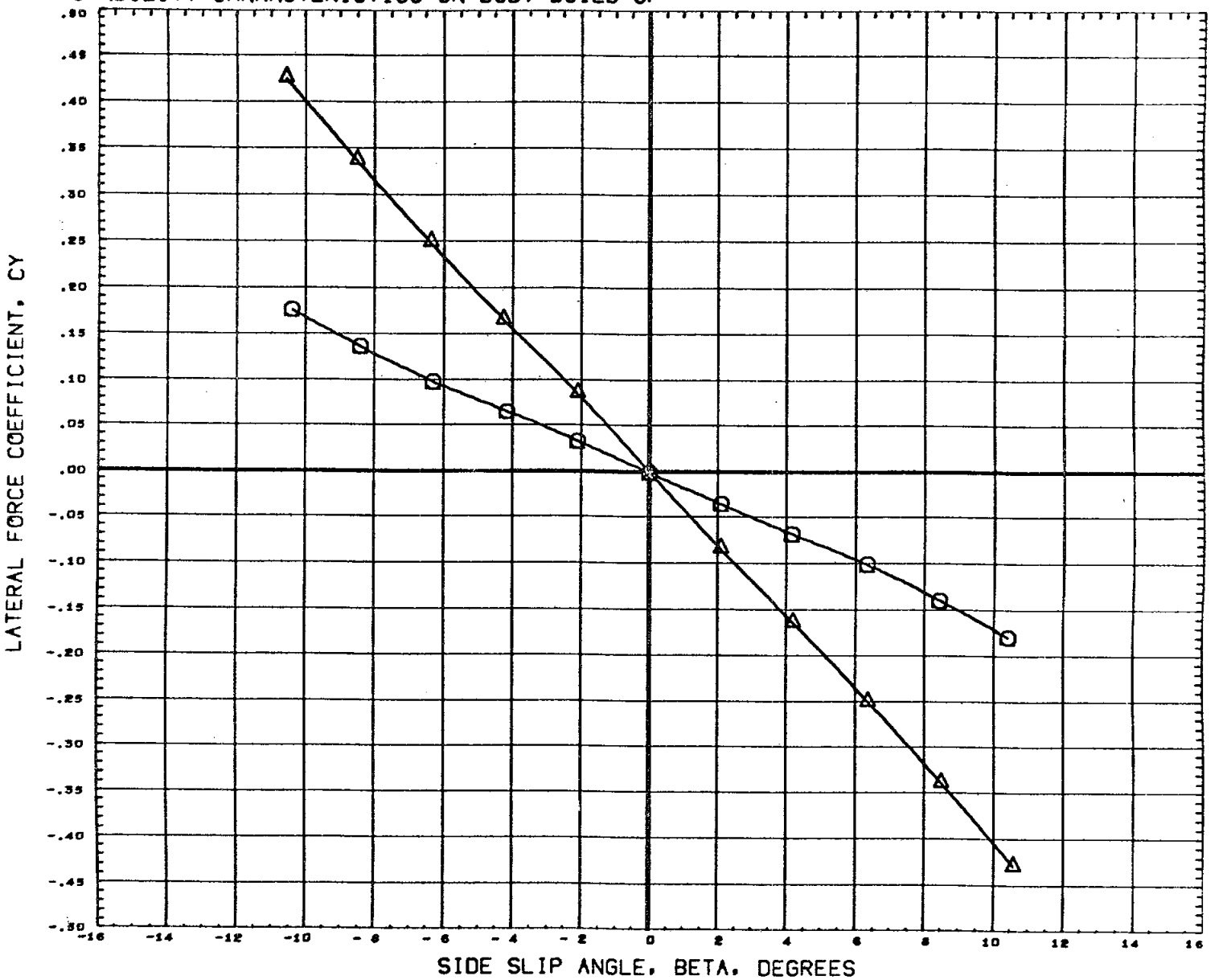


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77005)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	⊠	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP



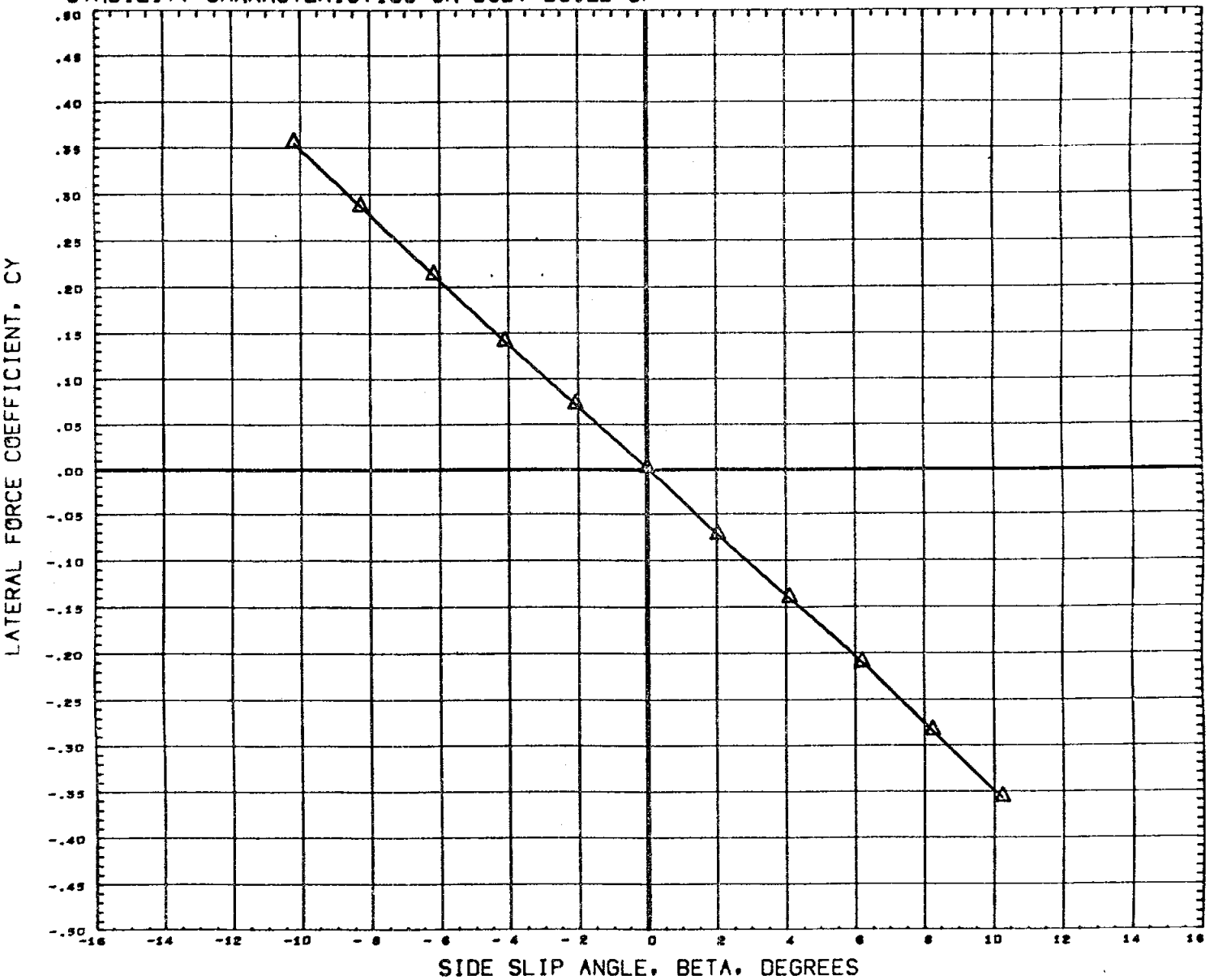
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77005)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

STABILITY CHARACTERISTICS ON BODY BUILD-UP

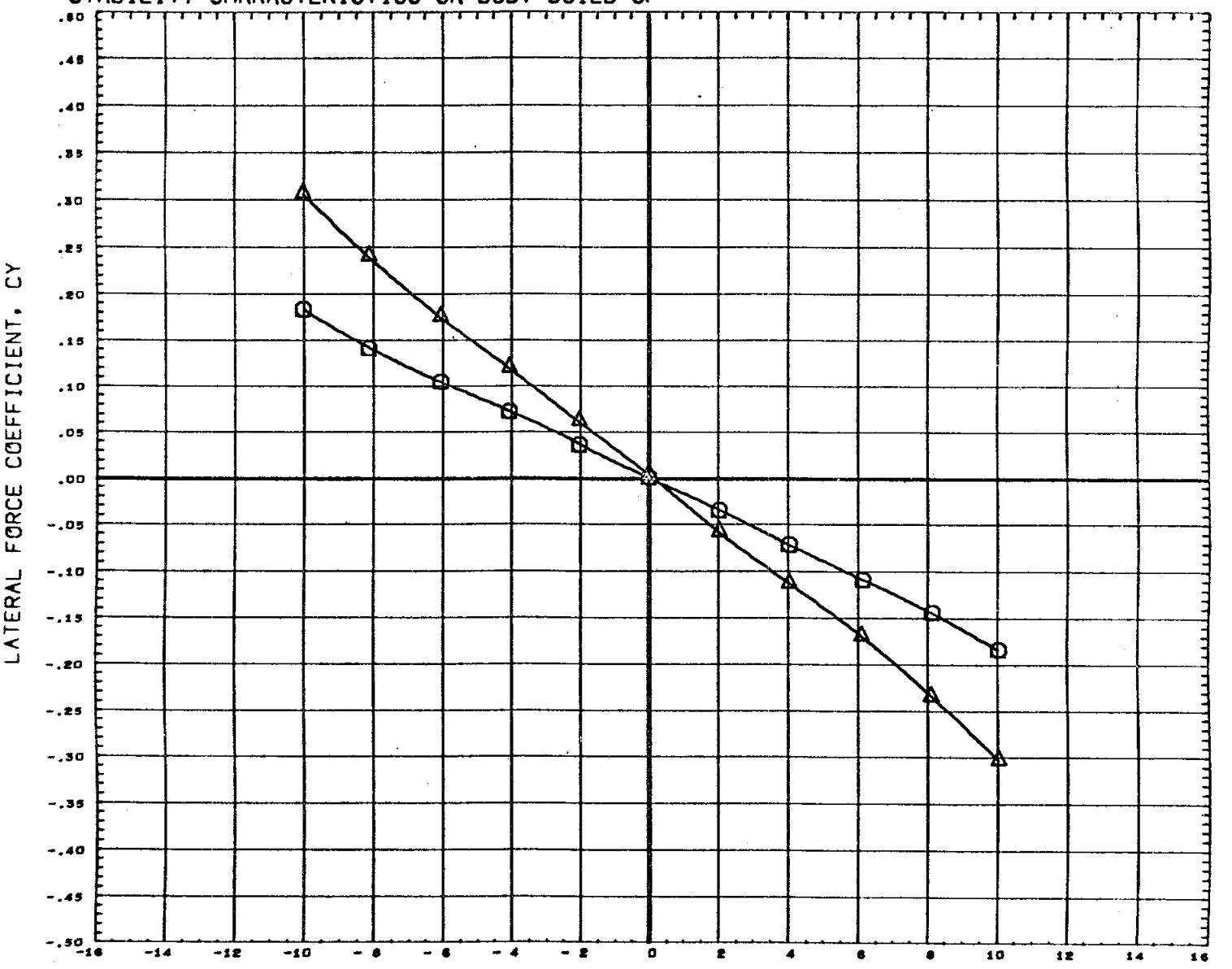


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP



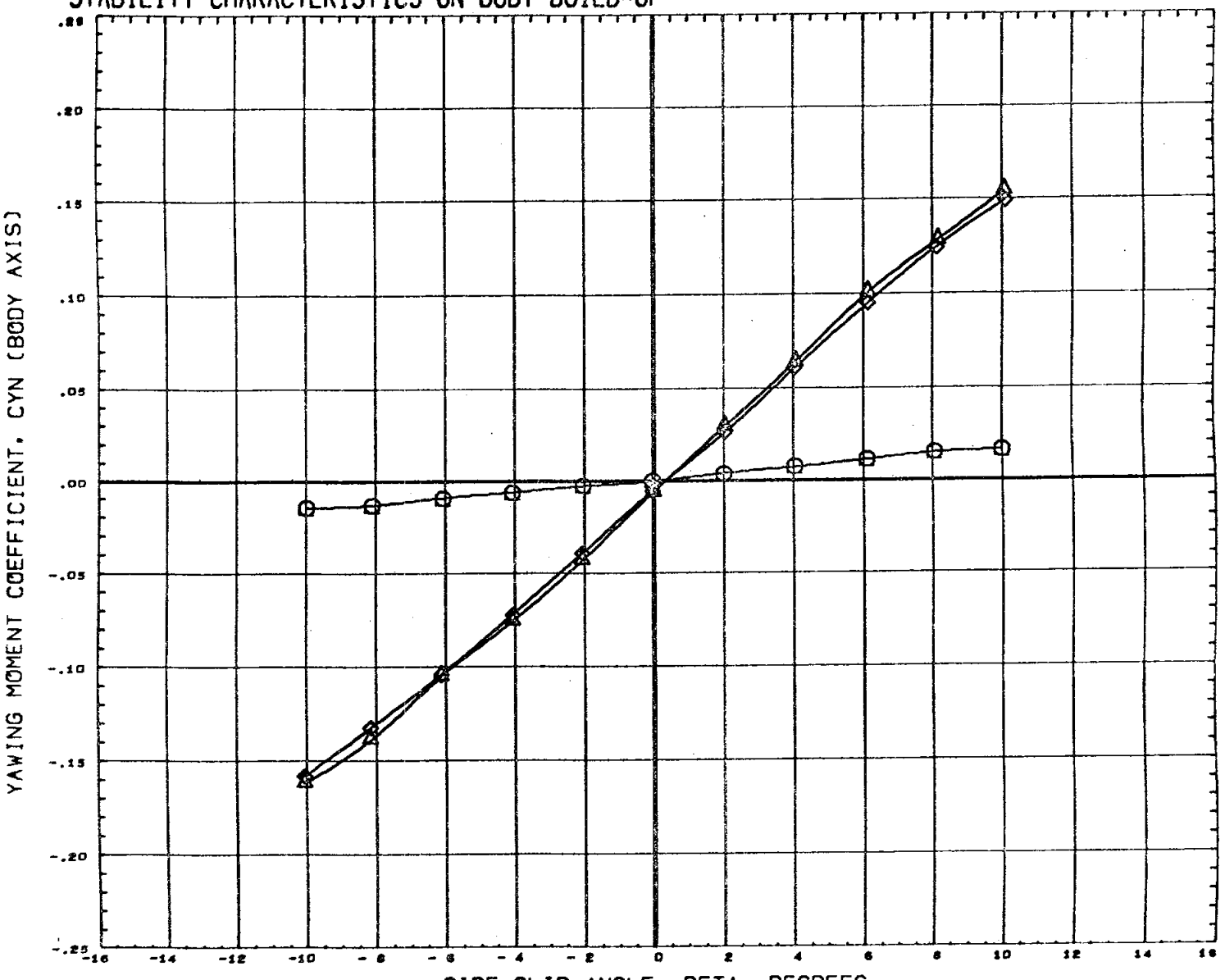
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

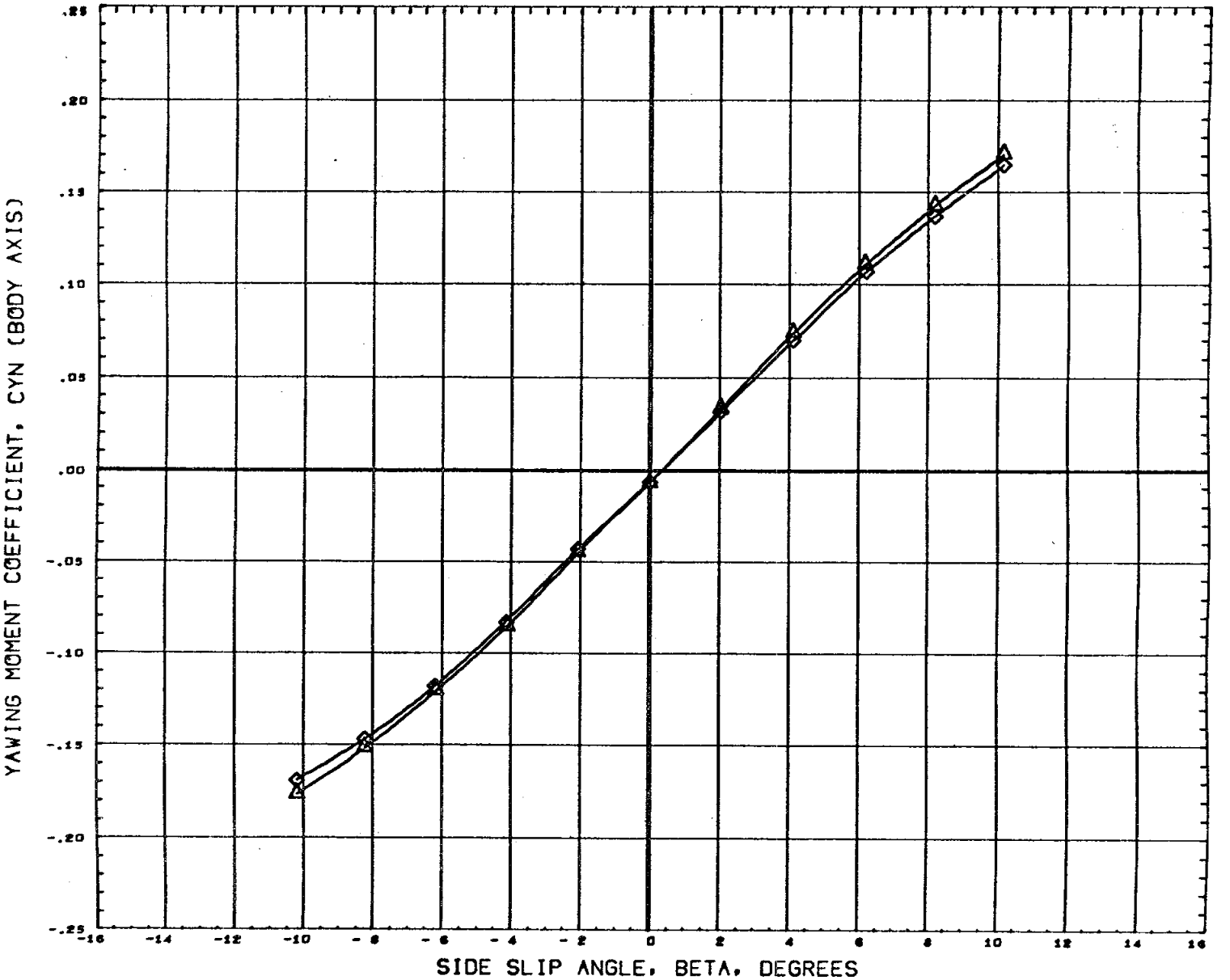


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

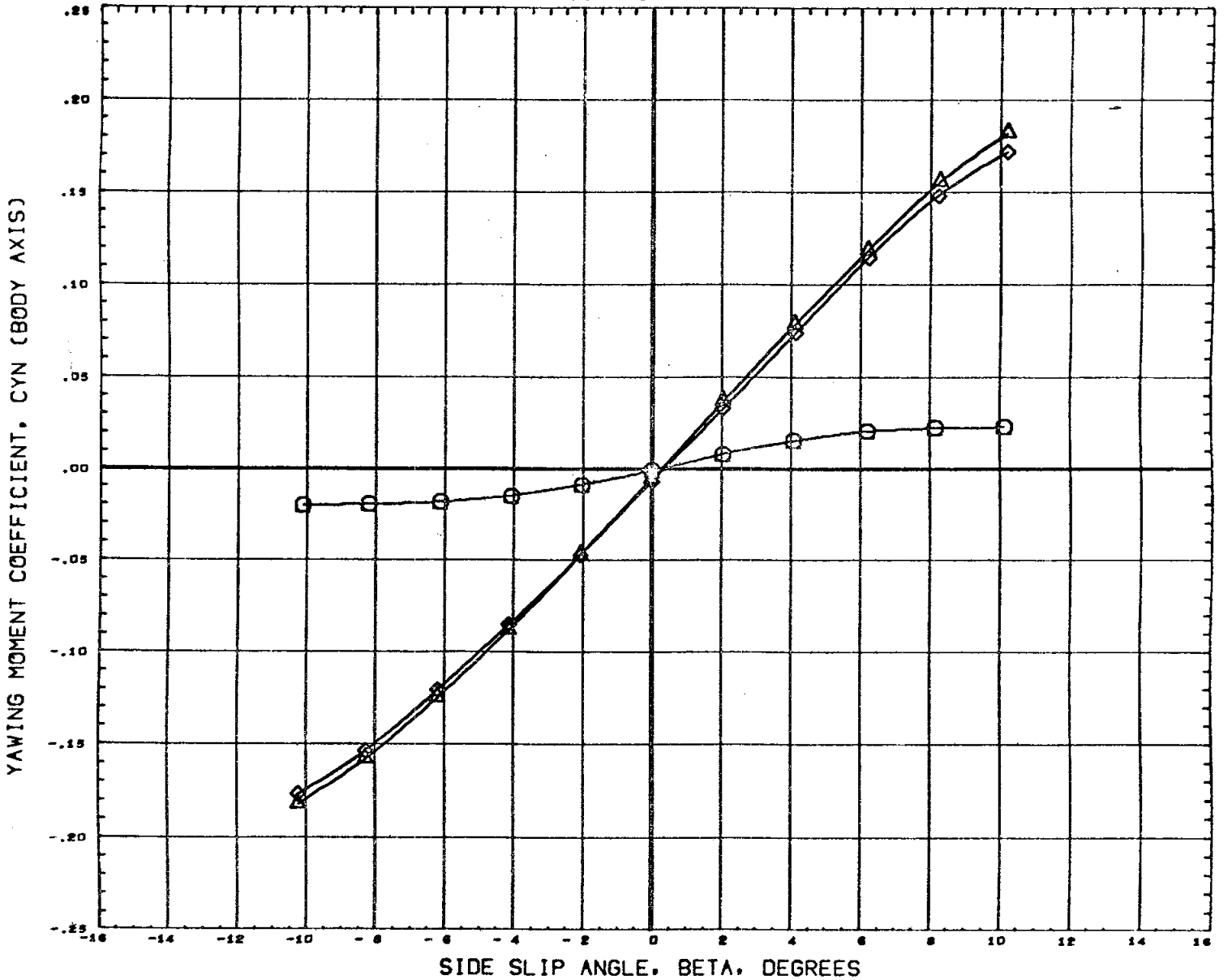


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP

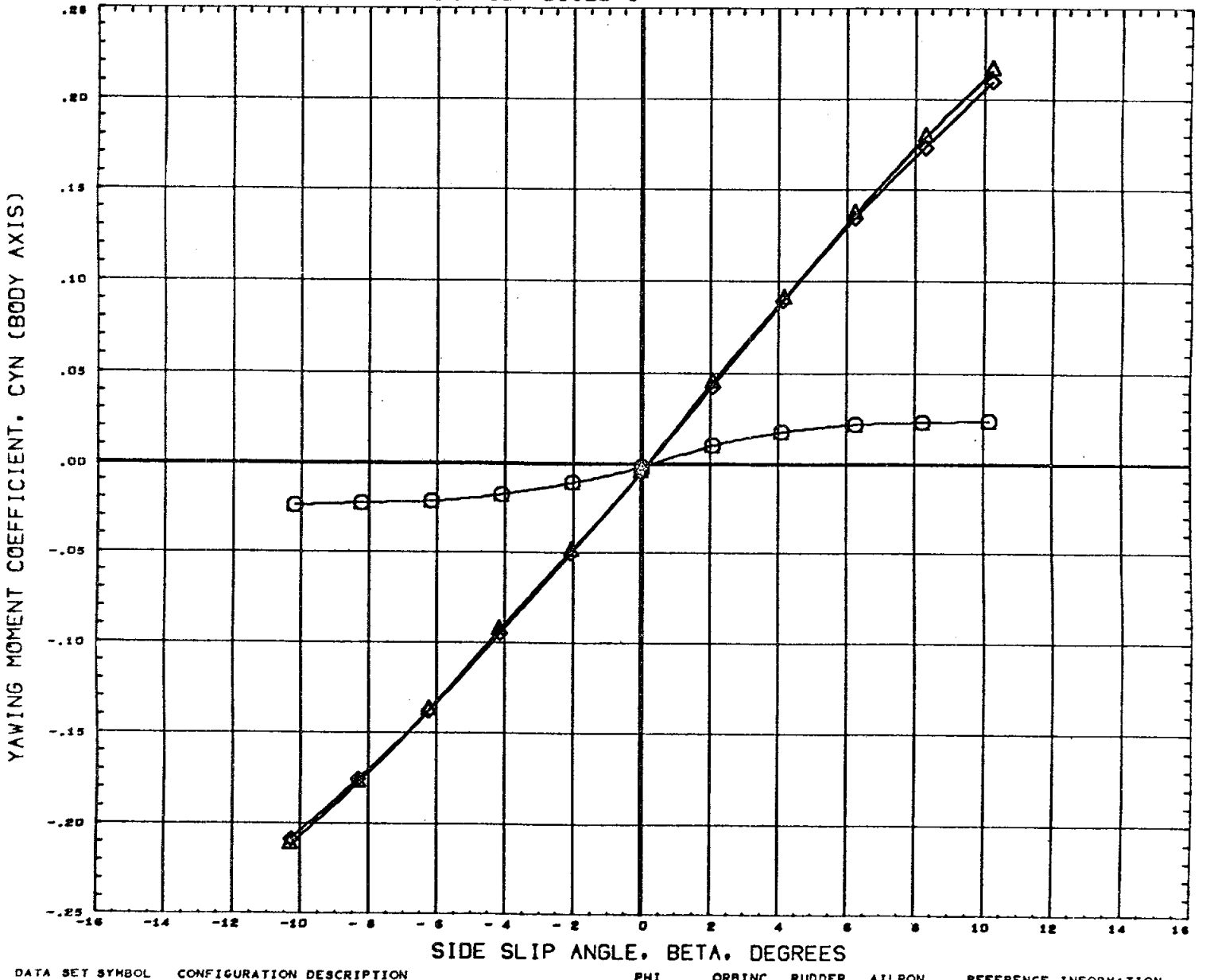


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP



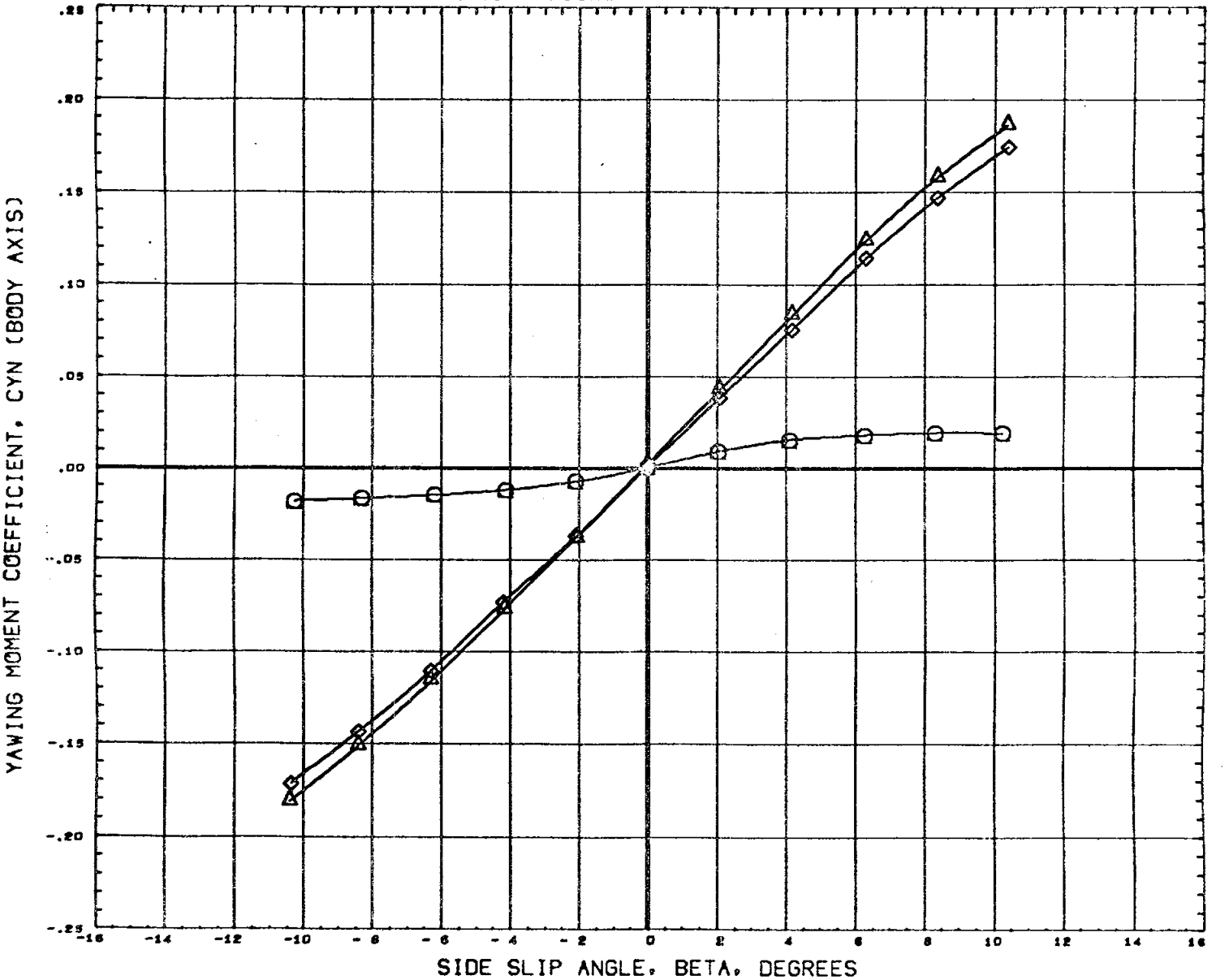
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3) (S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

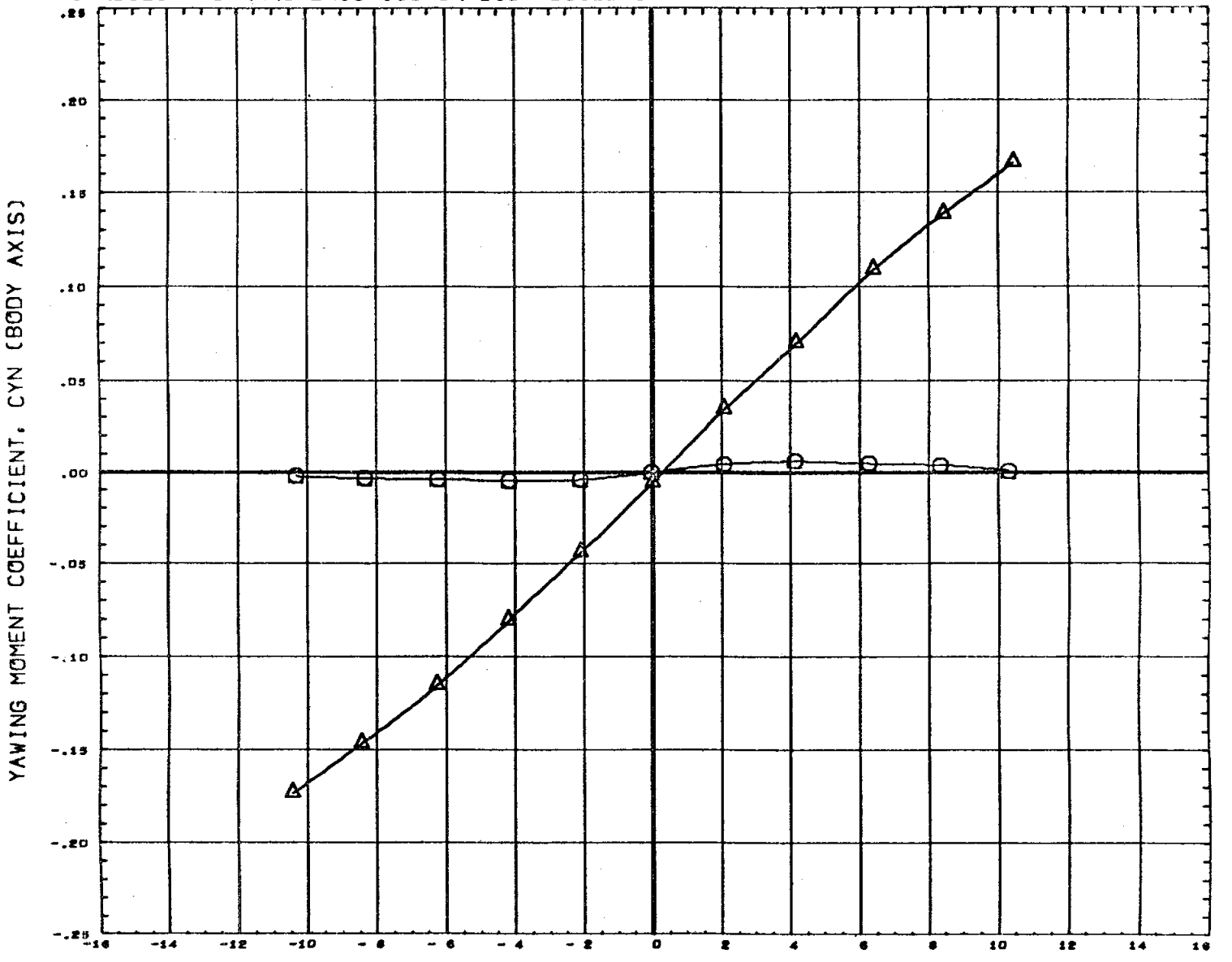


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77005)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

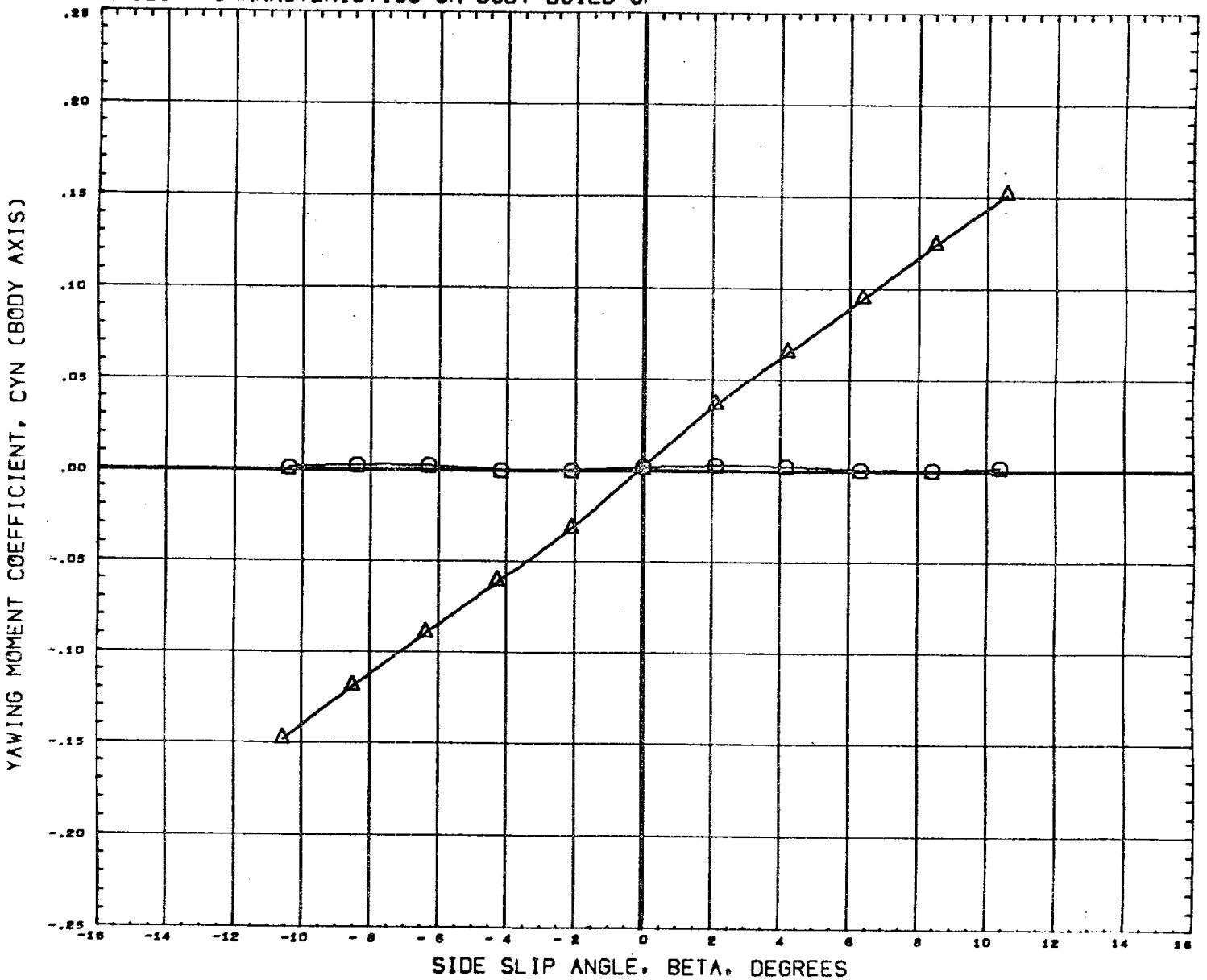


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP



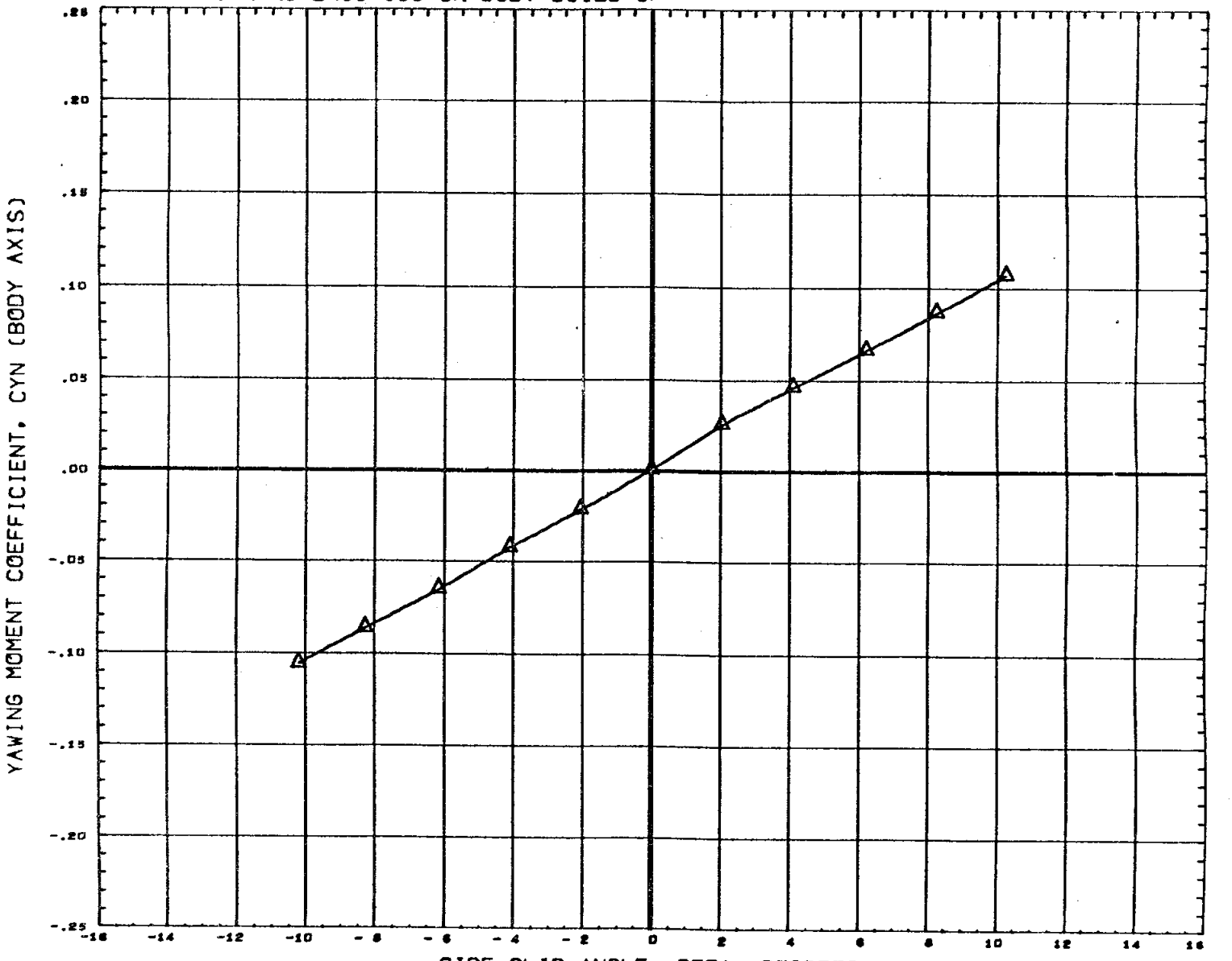
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (OI)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

STABILITY CHARACTERISTICS ON BODY BUILD-UP



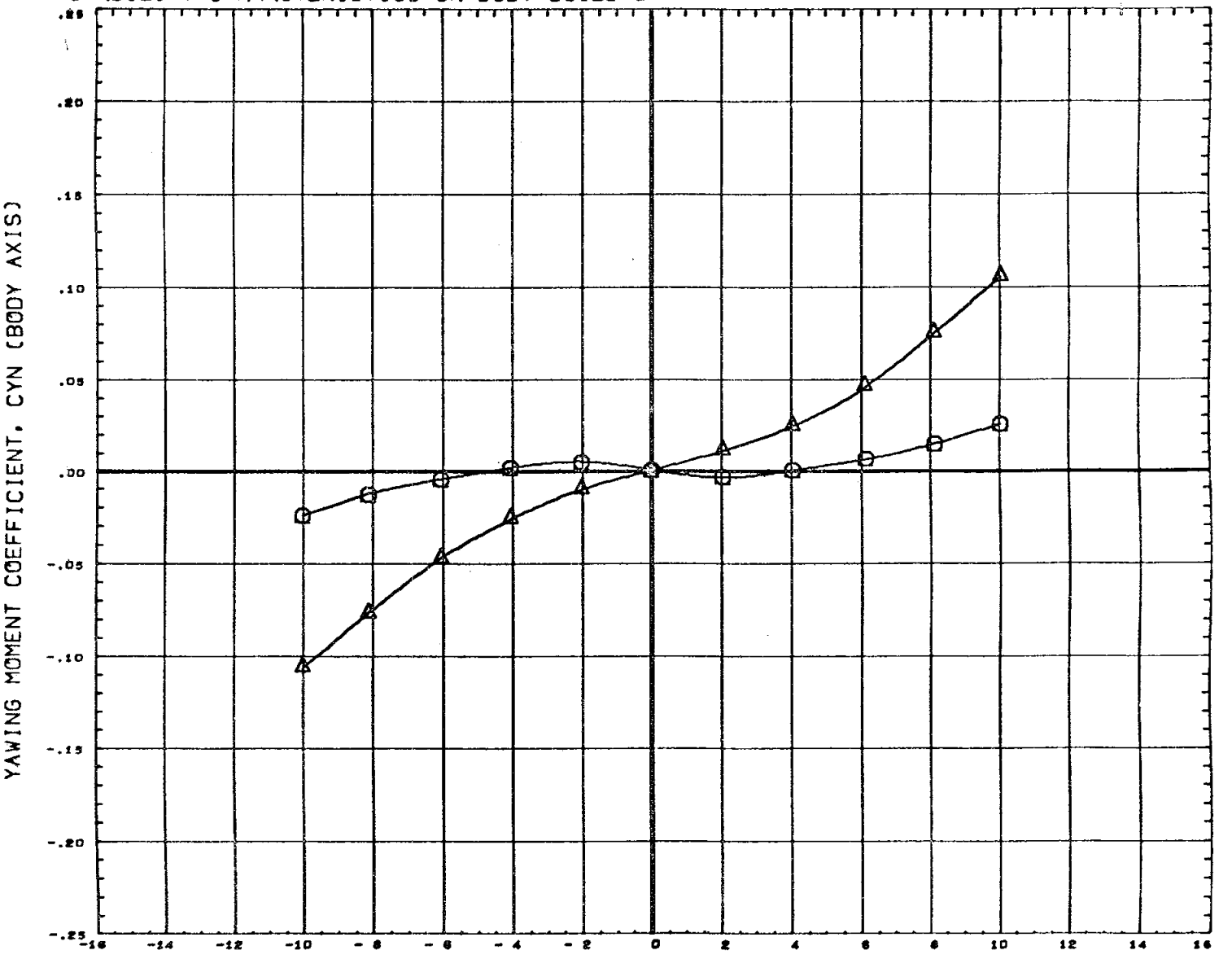
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP

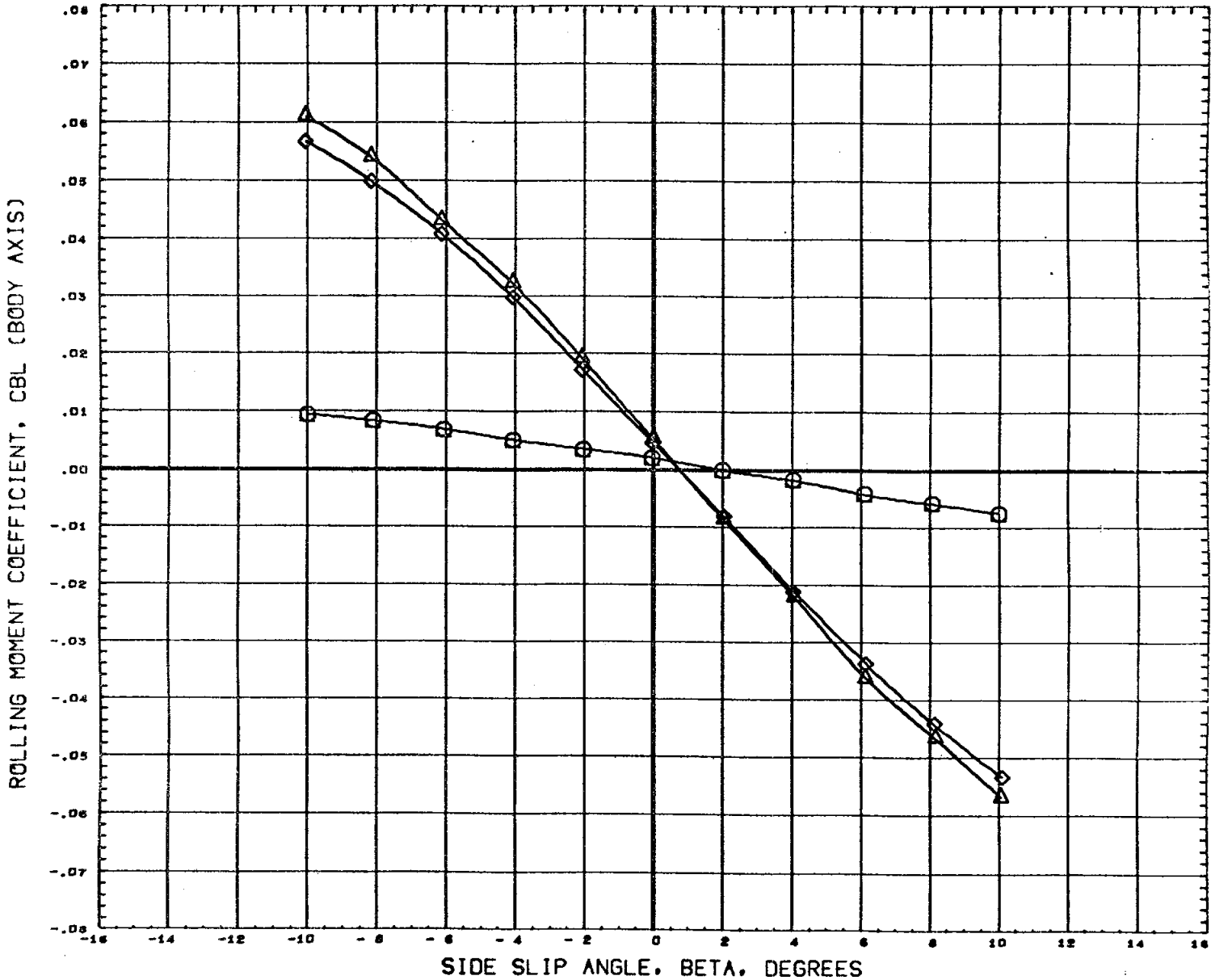


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77005)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP



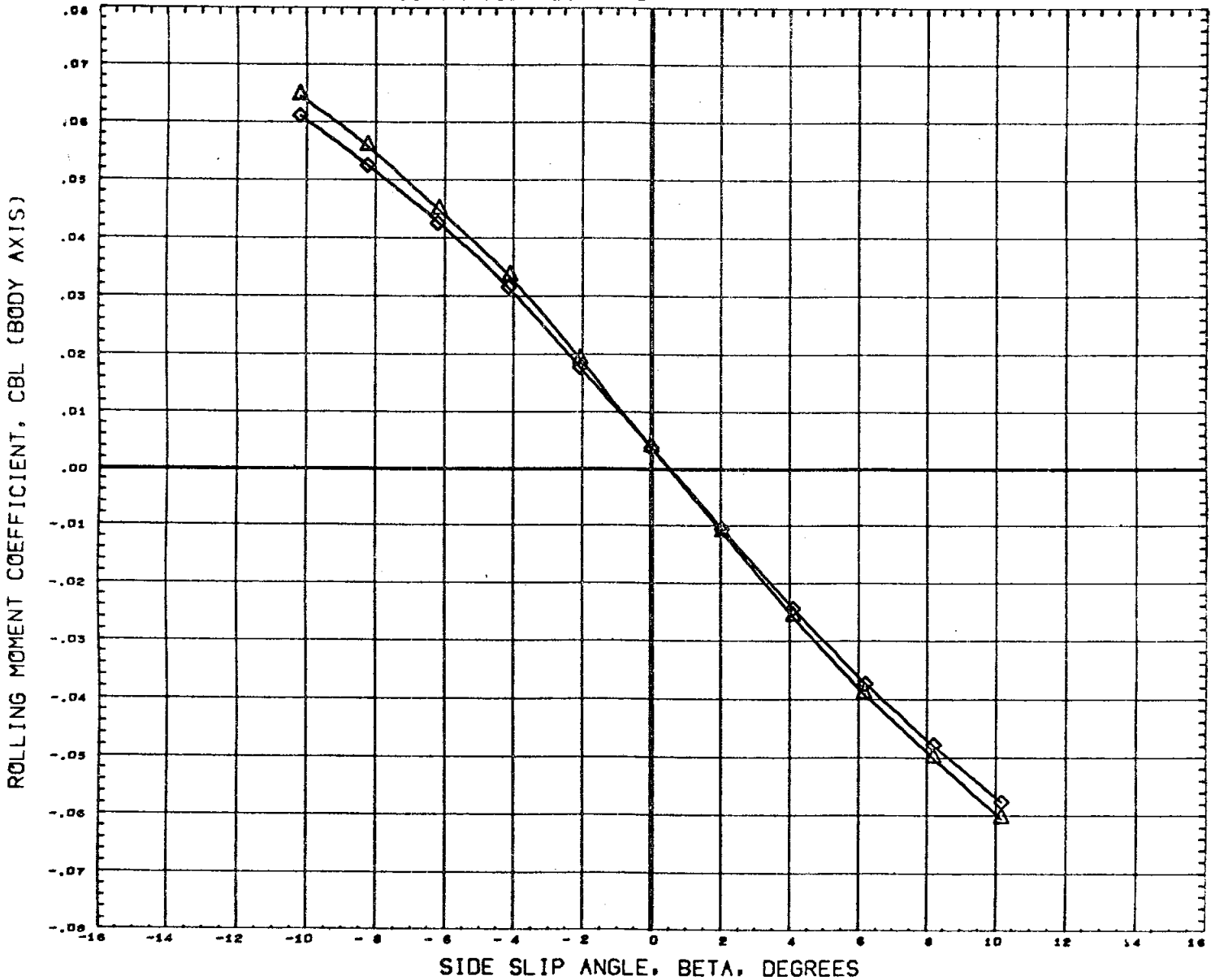
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

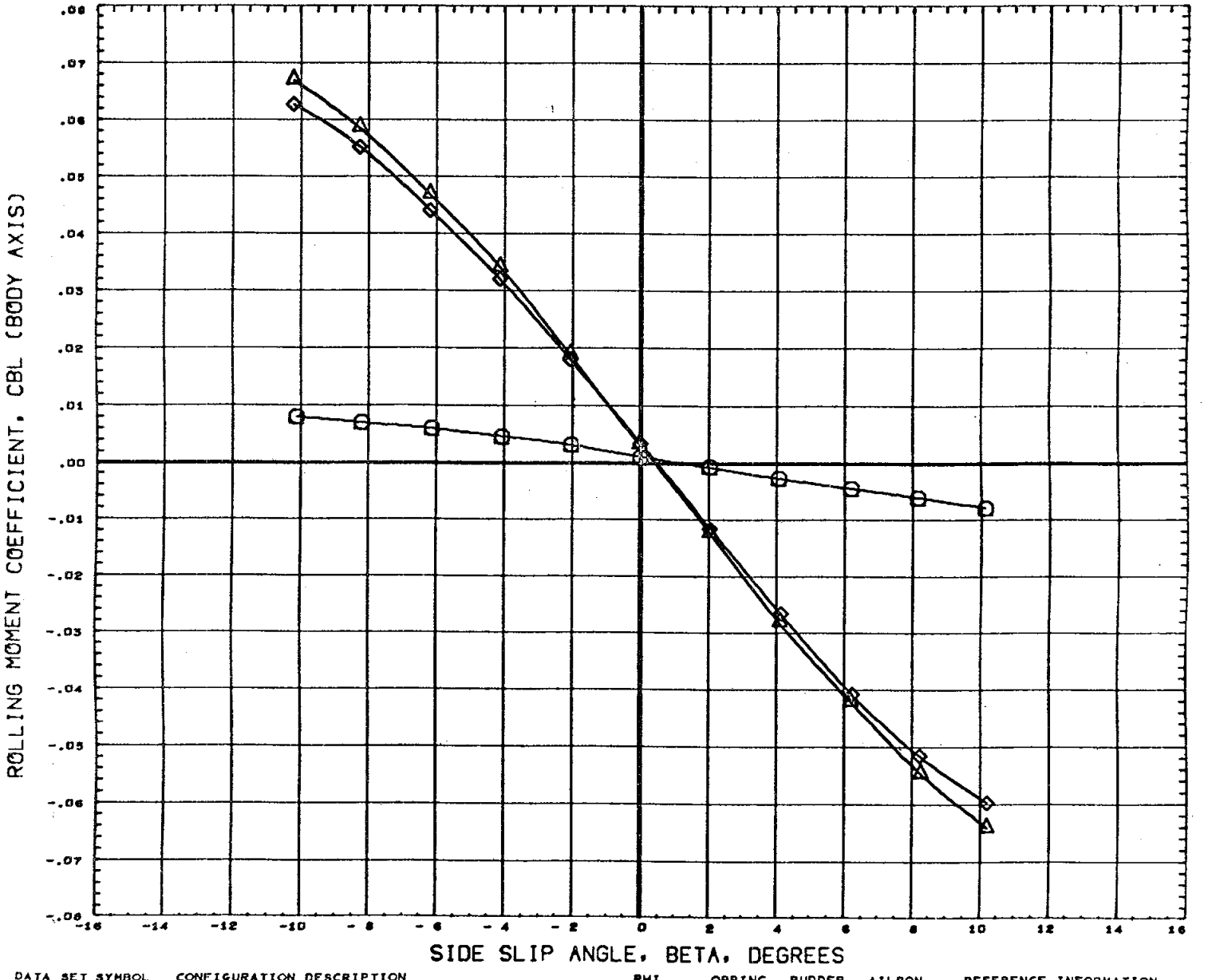


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (02)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP



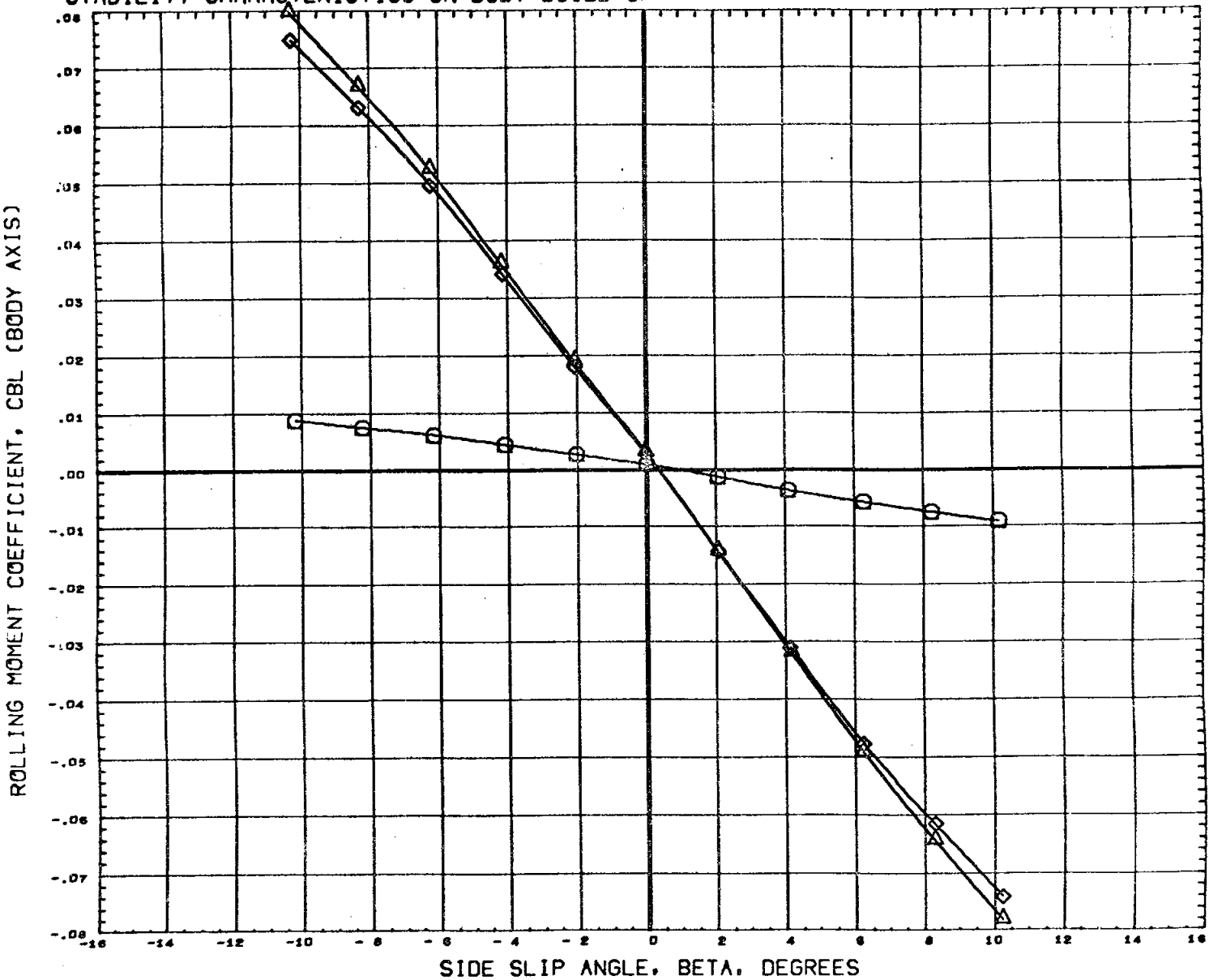
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77005)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000			
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP

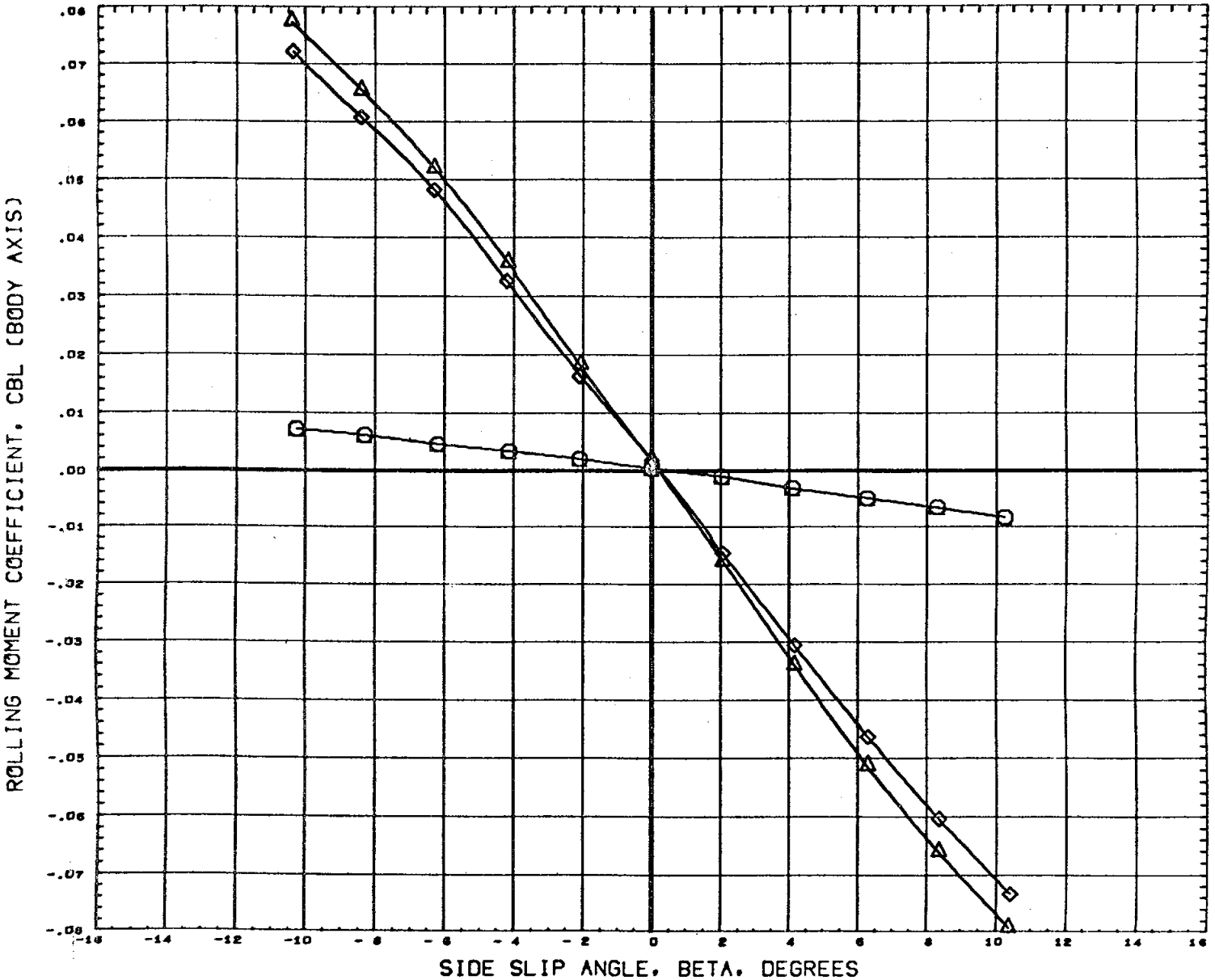


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	60.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

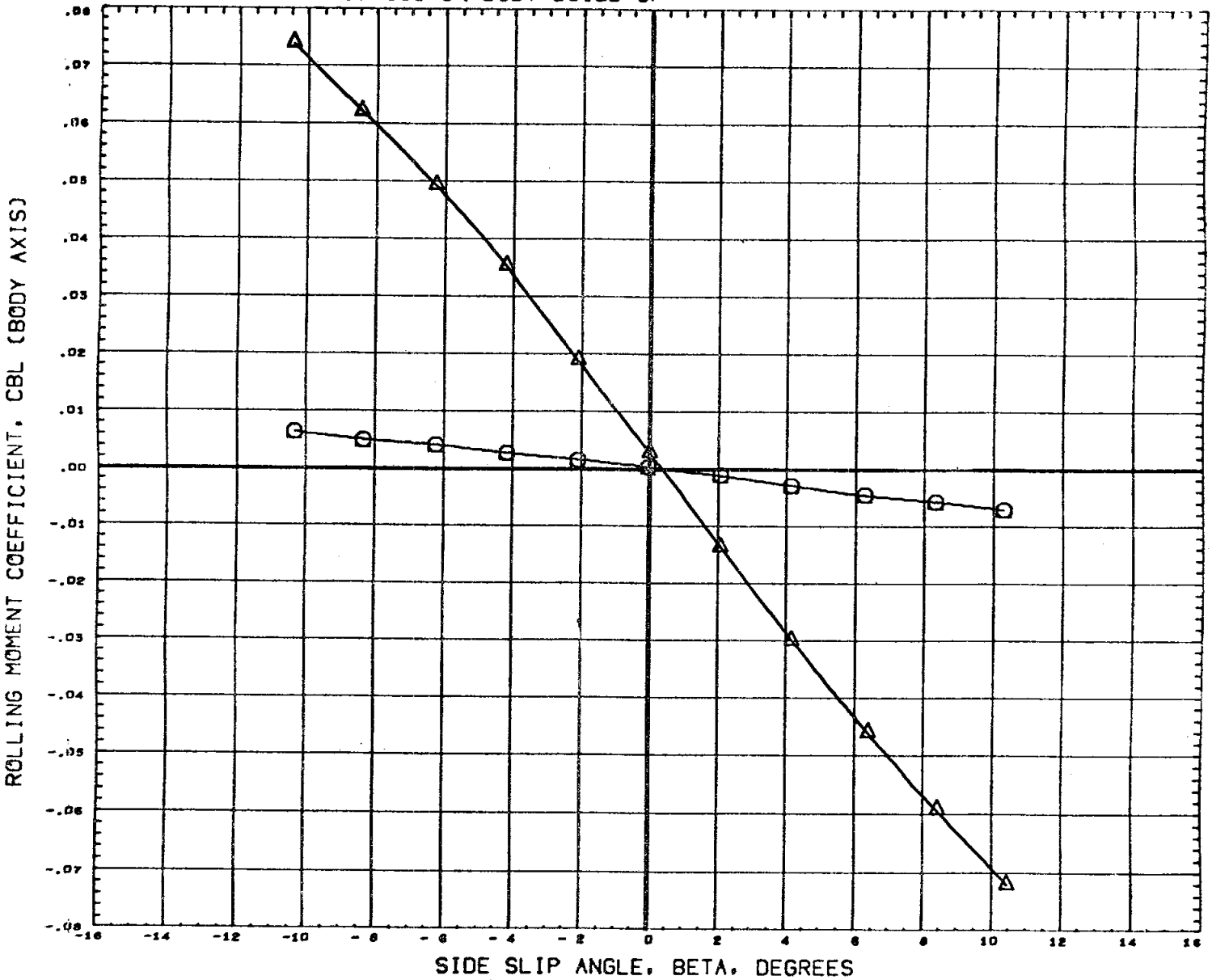


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP



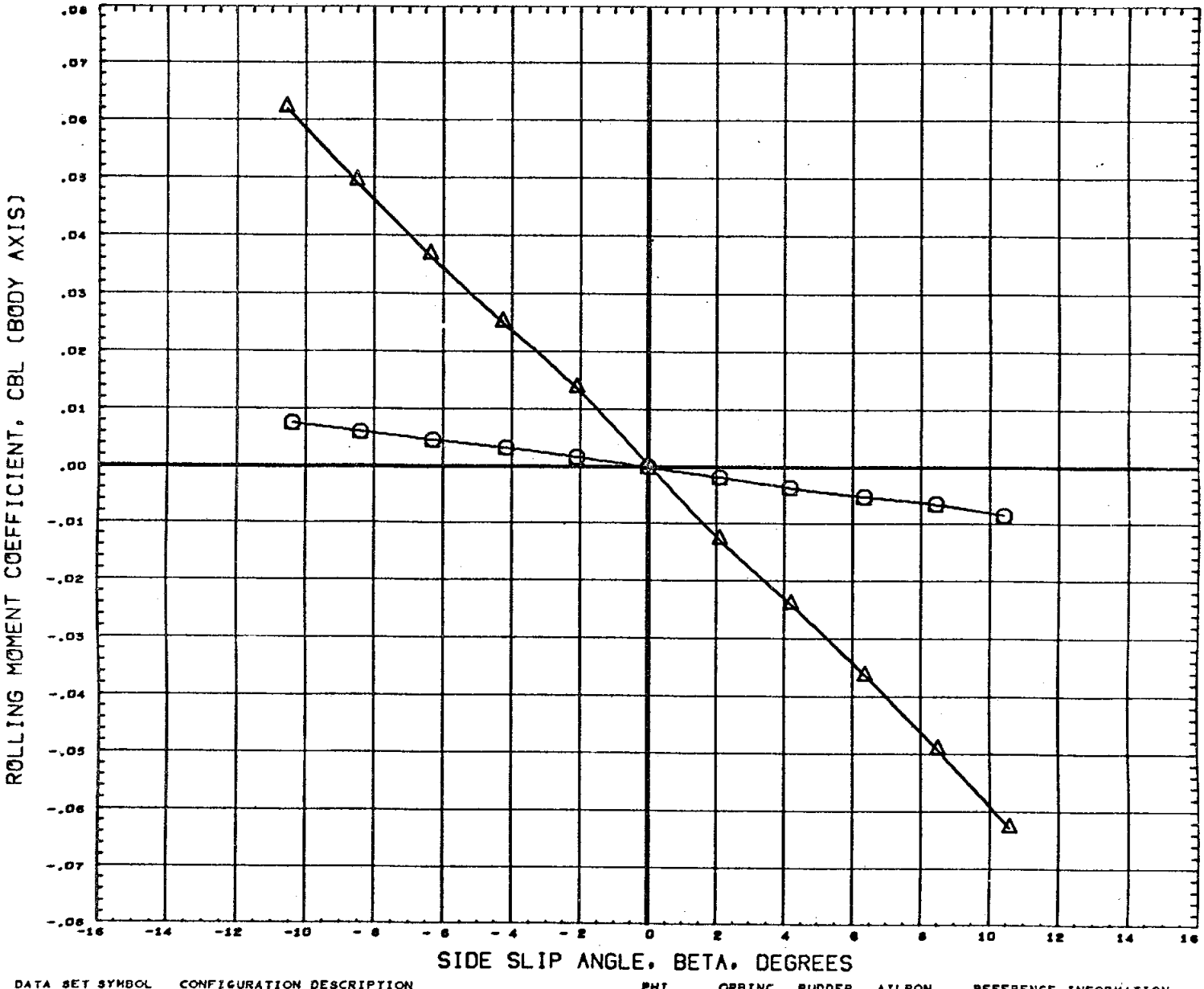
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP



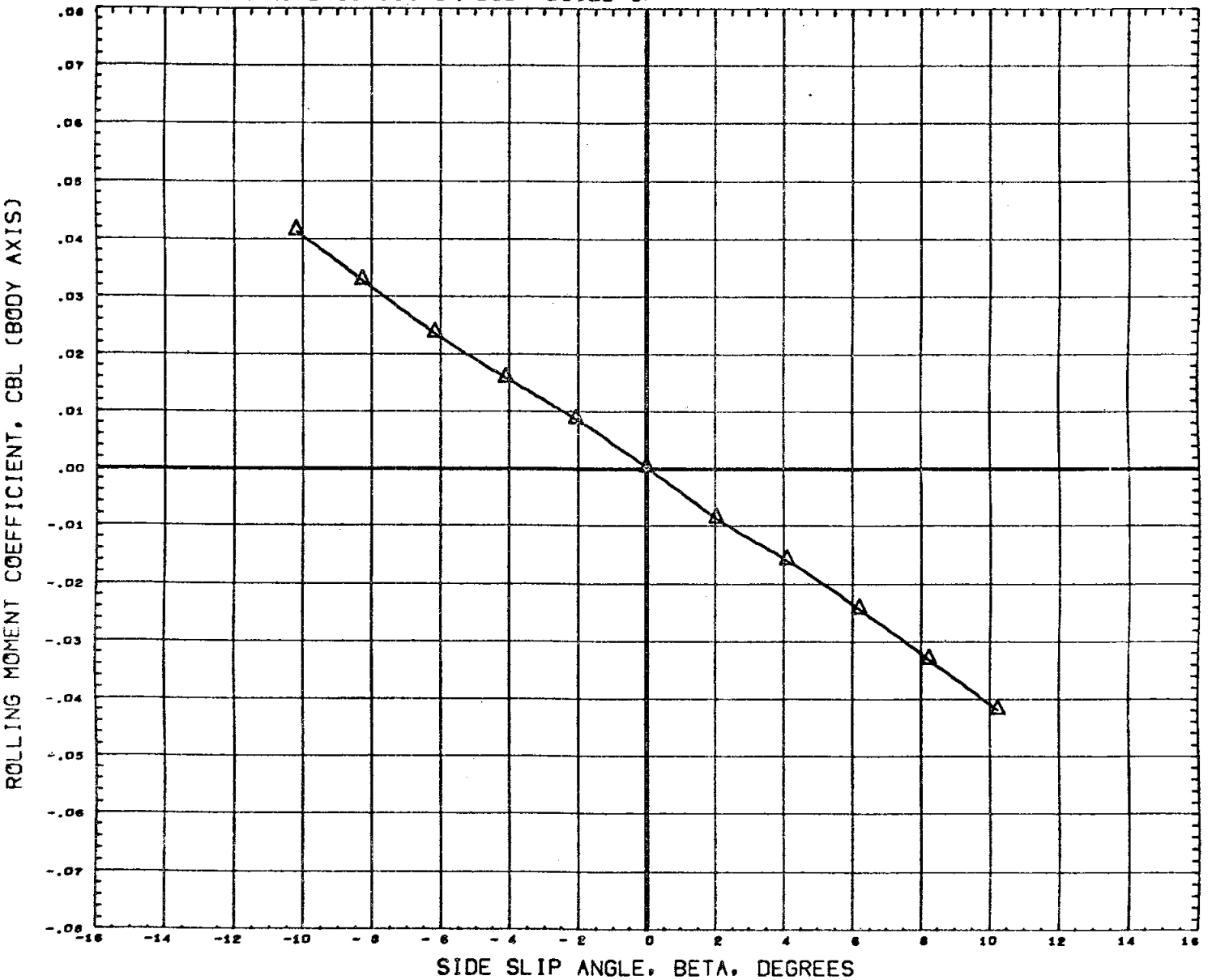
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

STABILITY CHARACTERISTICS ON BODY BUILD-UP

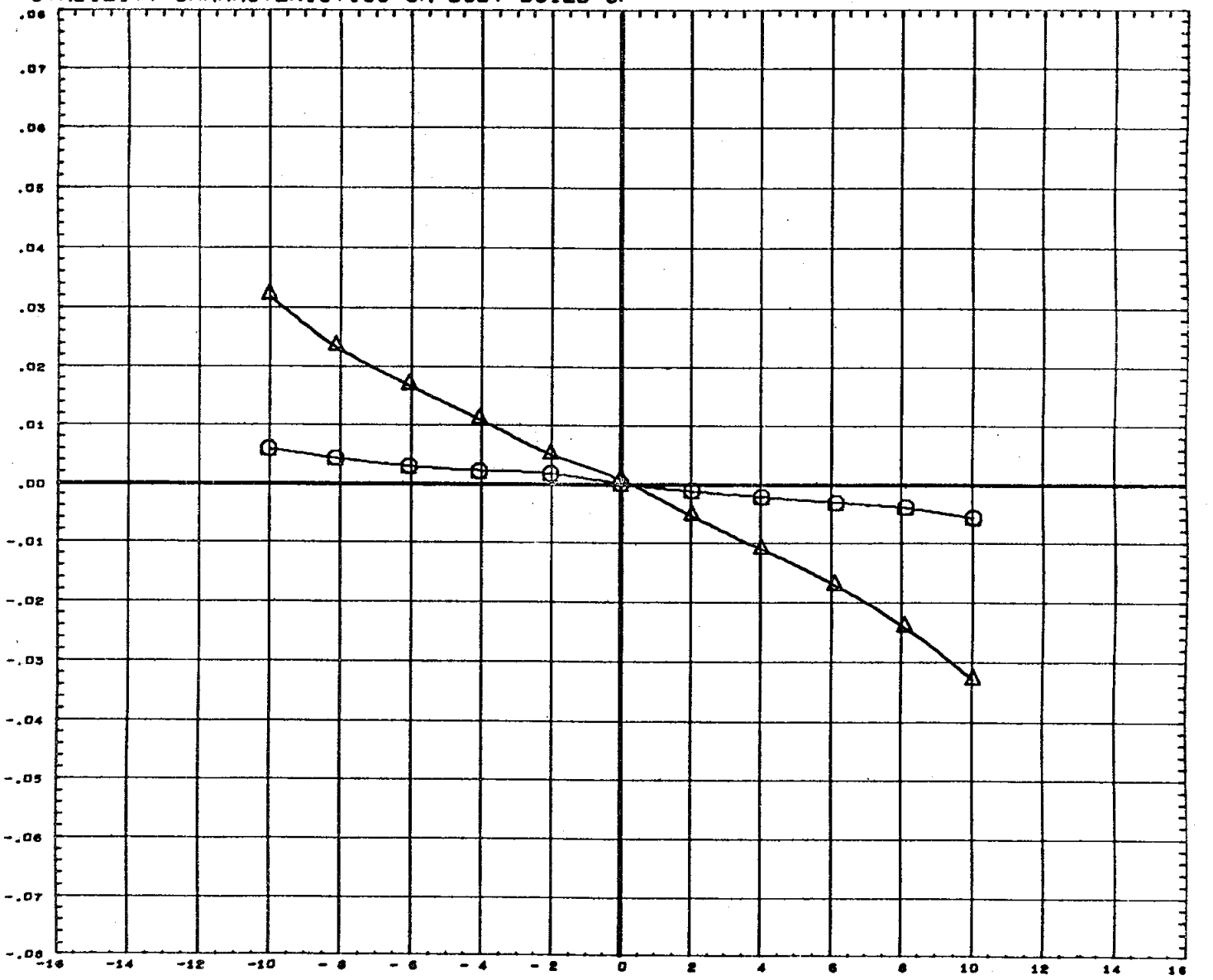


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	60.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP



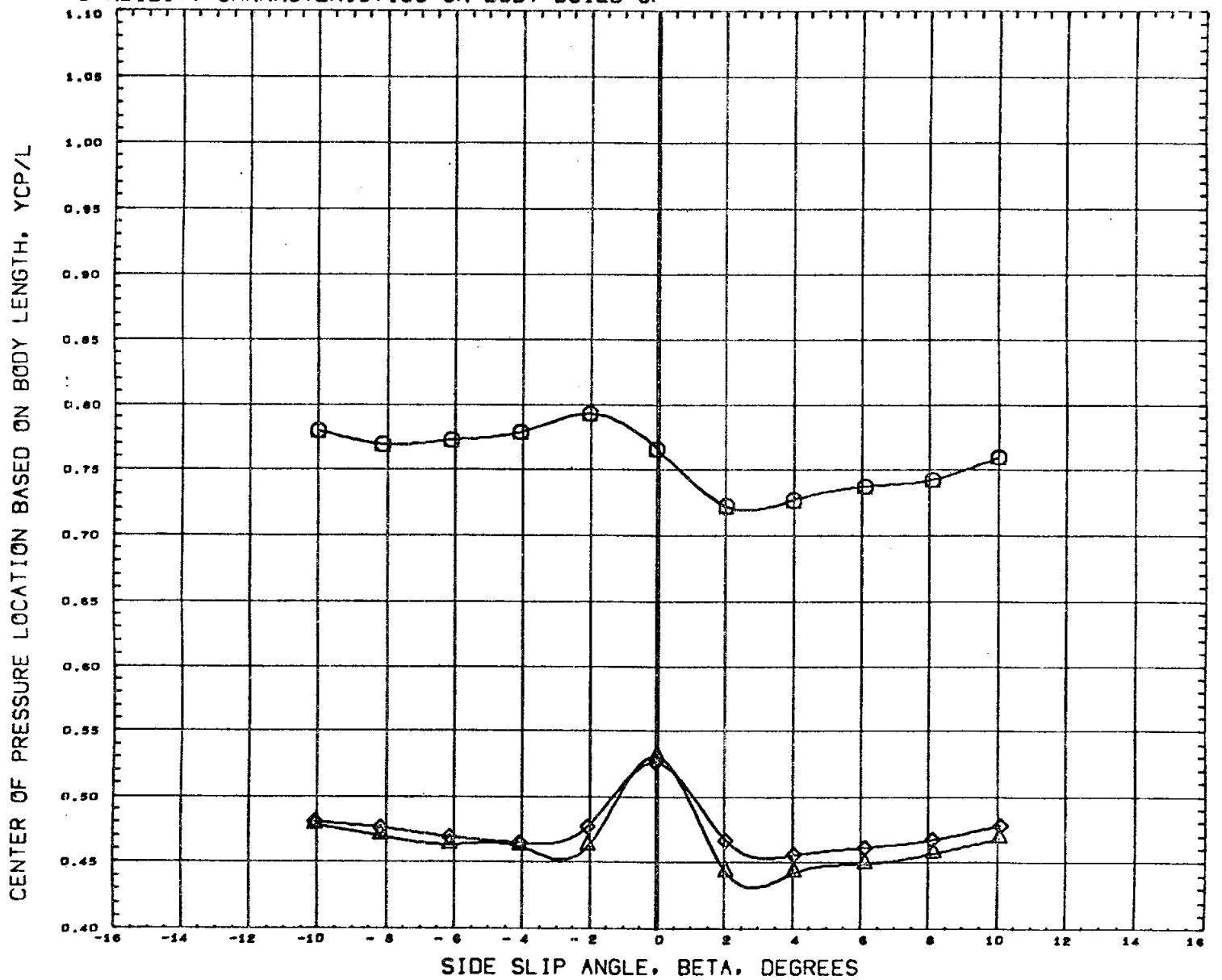
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP

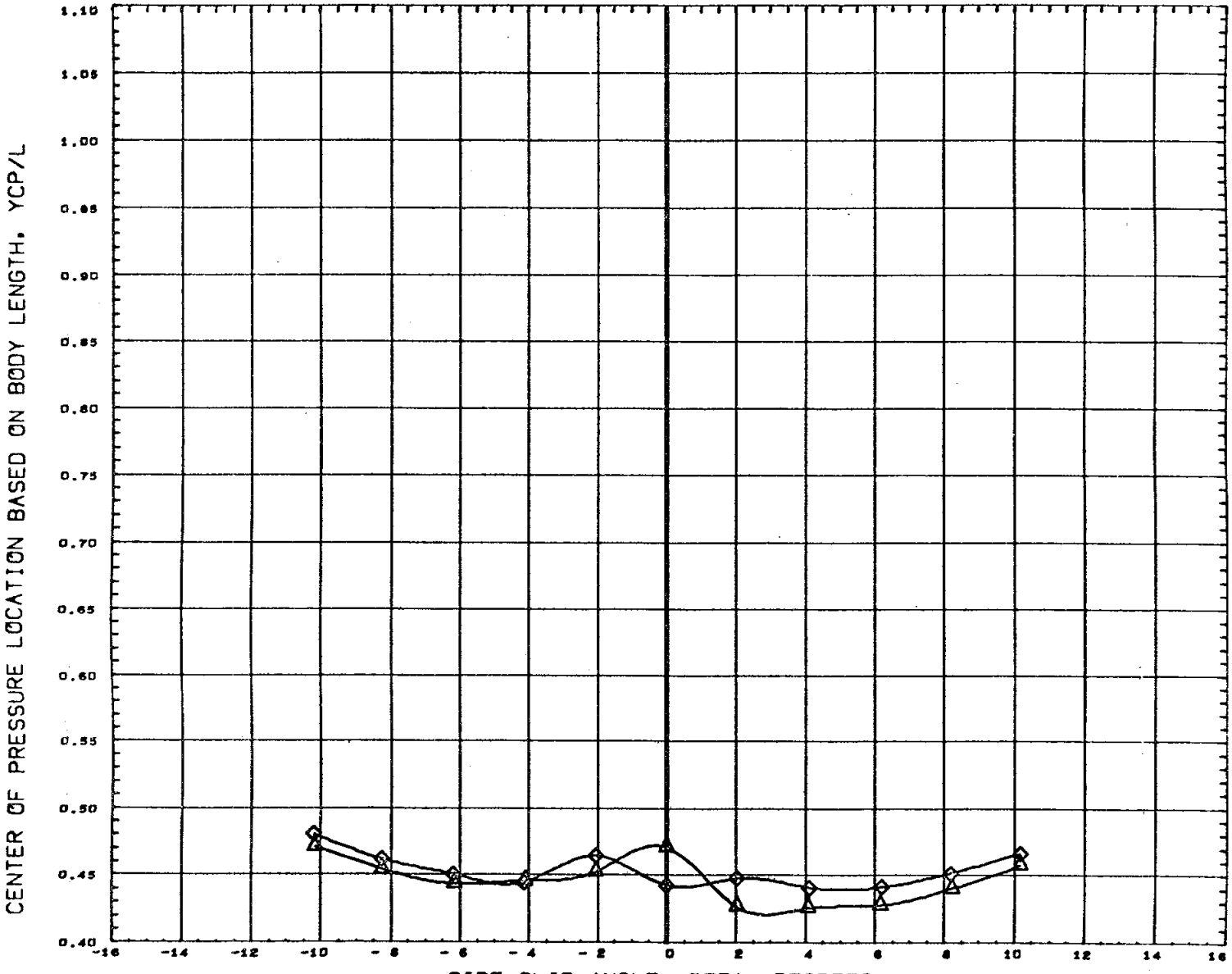


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

STABILITY CHARACTERISTICS ON BODY BUILD-UP

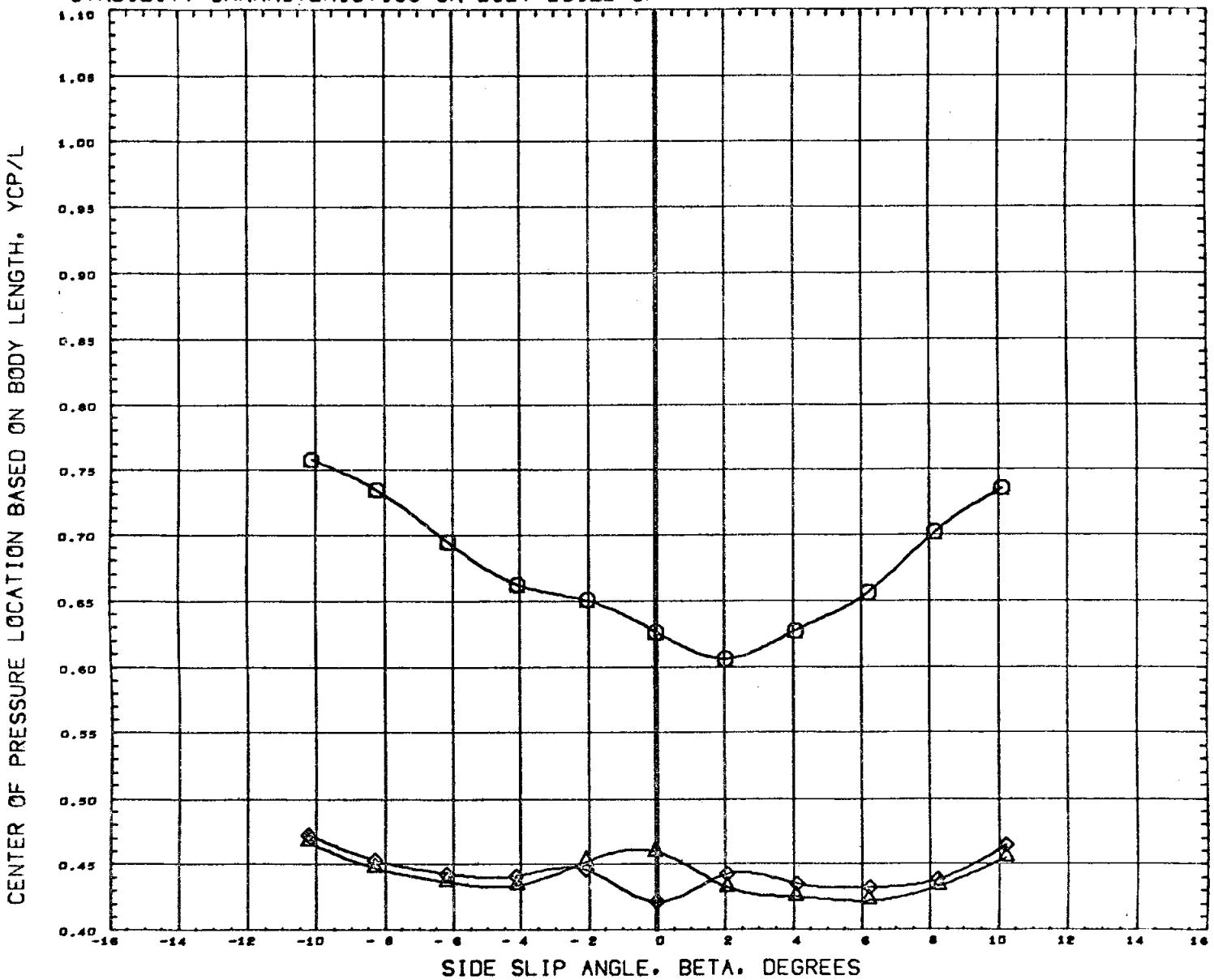


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (01)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (02)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

STABILITY CHARACTERISTICS ON BODY BUILD-UP

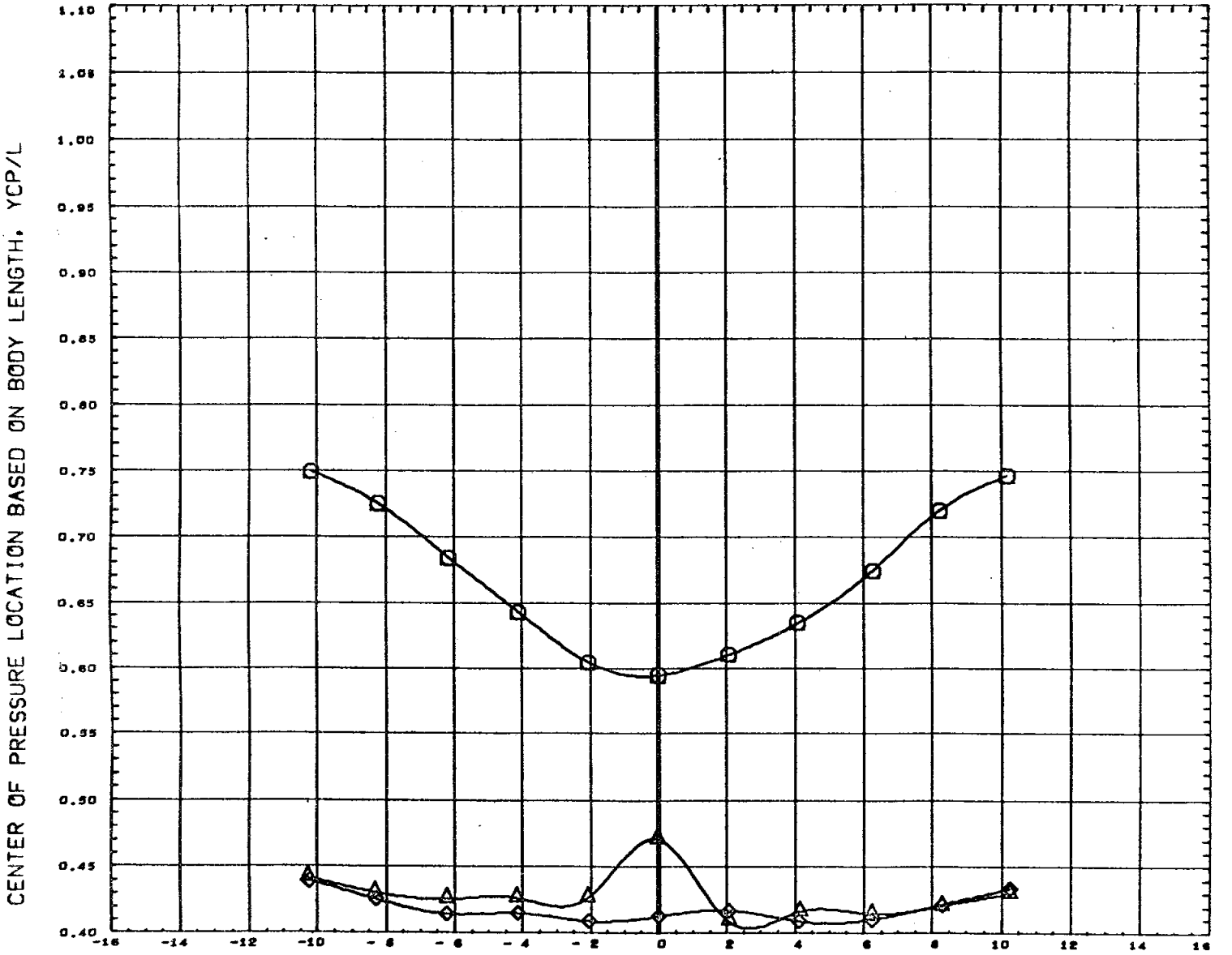


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

STABILITY CHARACTERISTICS ON BODY BUILD-UP

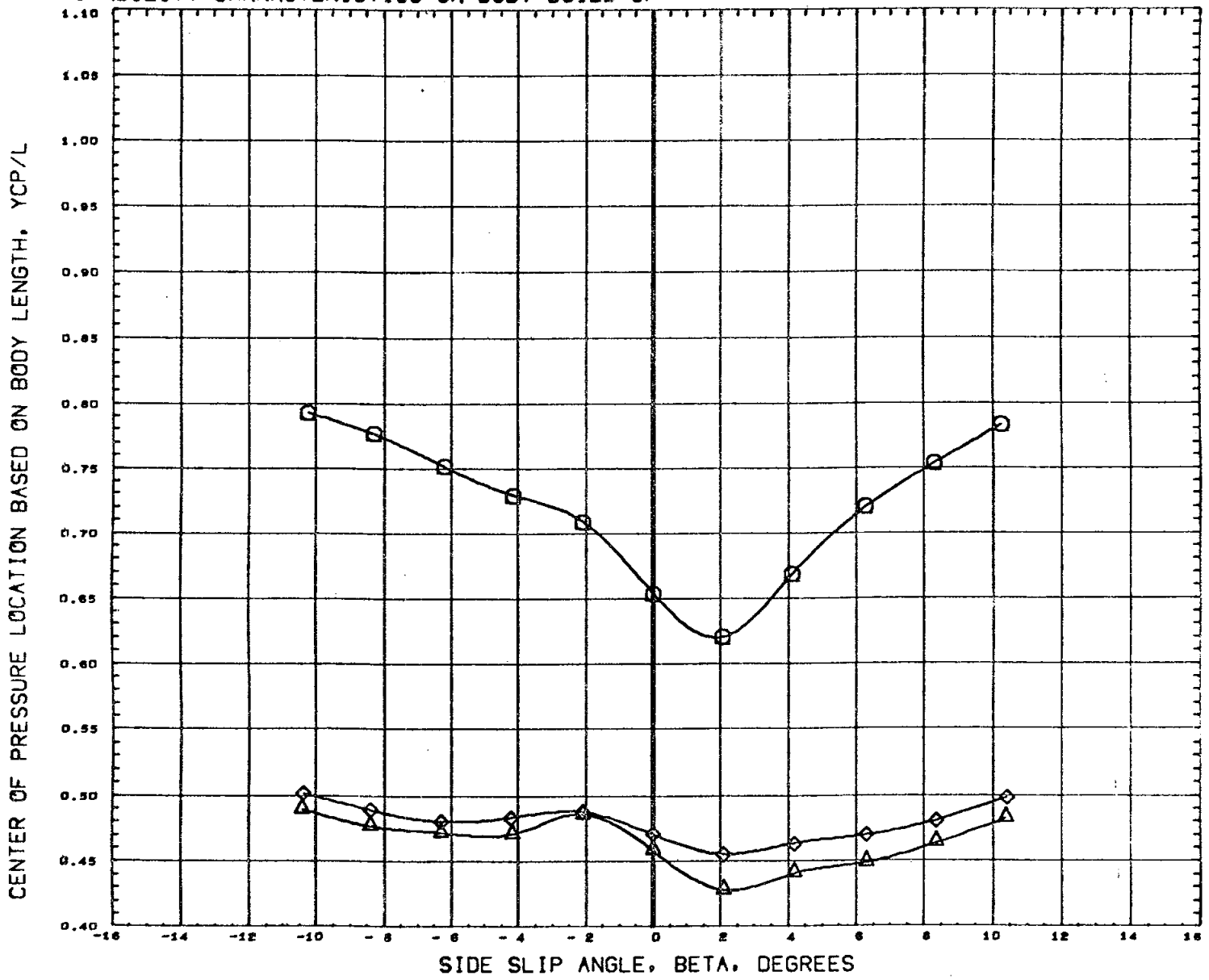


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

STABILITY CHARACTERISTICS ON BODY BUILD-UP

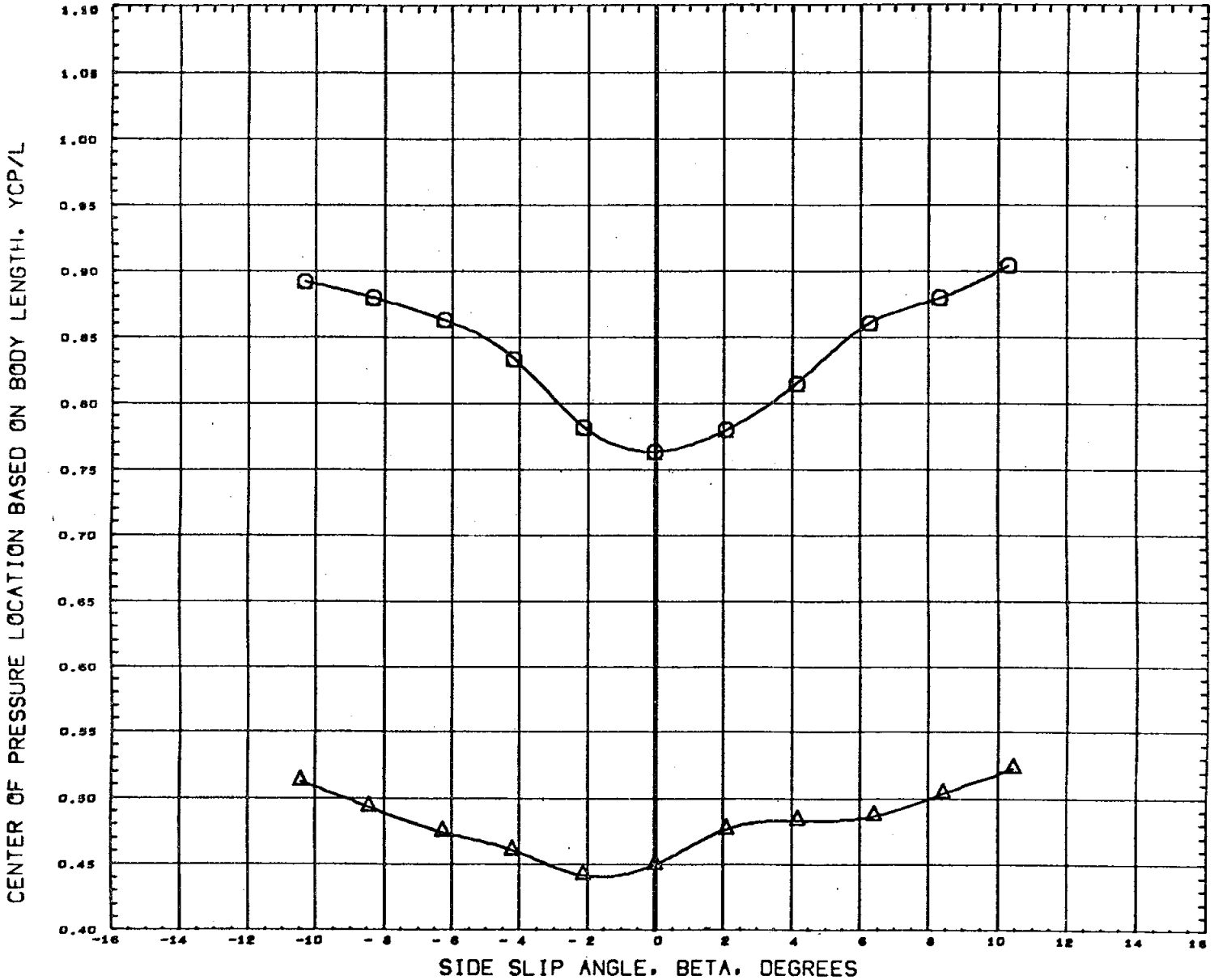


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3) (S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1) (T3) (S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

STABILITY CHARACTERISTICS ON BODY BUILD-UP

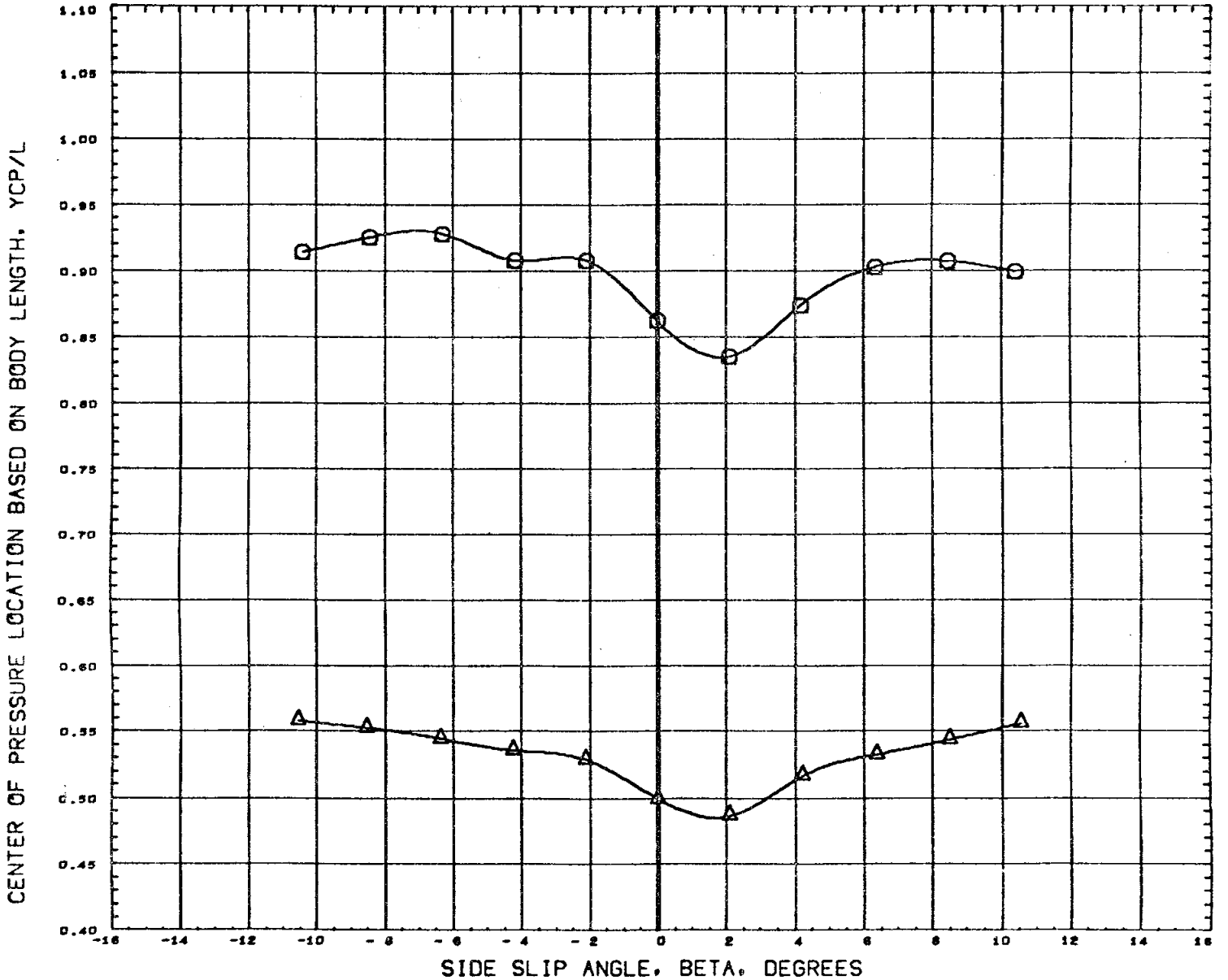


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

STABILITY CHARACTERISTICS ON BODY BUILD-UP

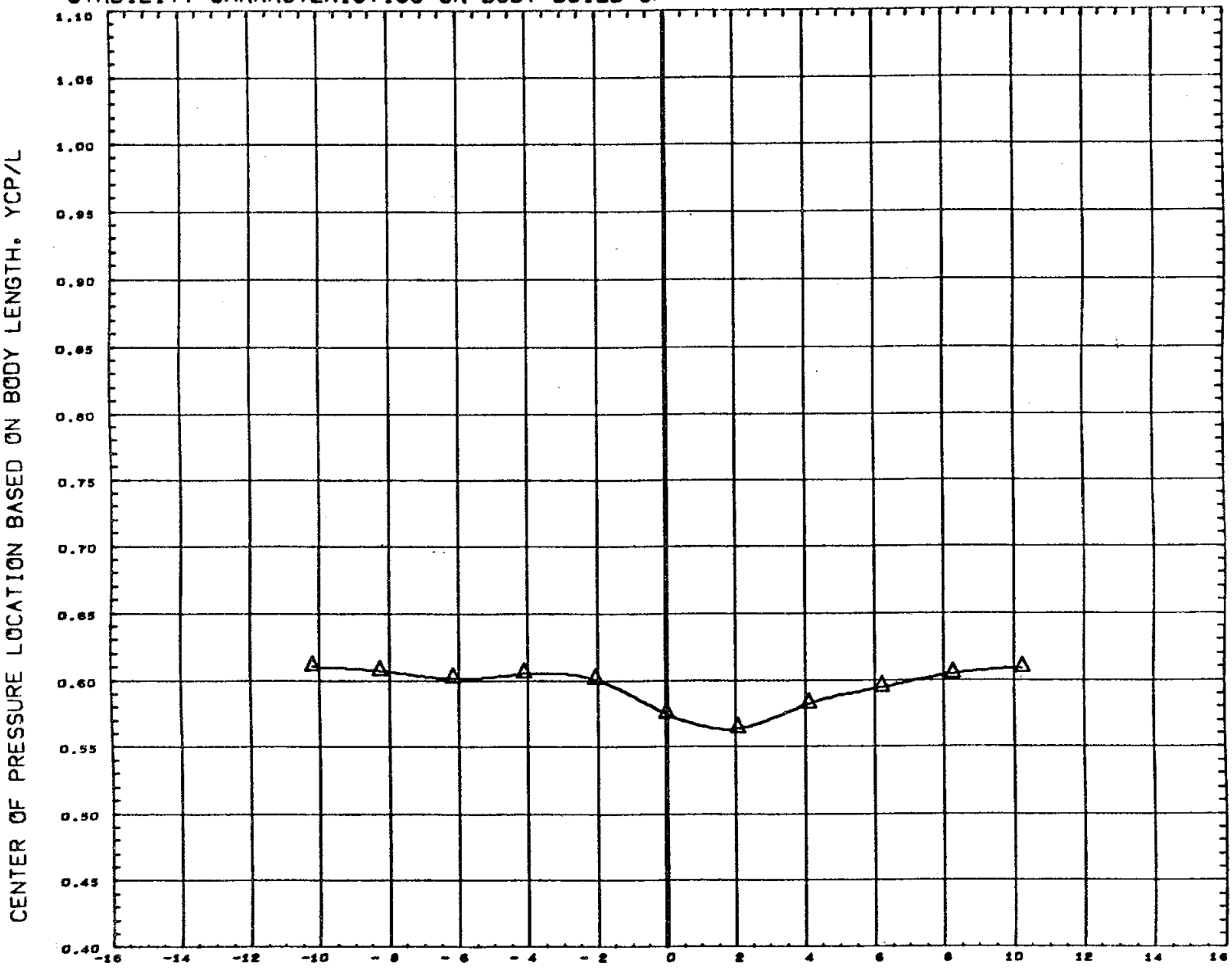


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77005)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	⊠	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

STABILITY CHARACTERISTICS ON BODY BUILD-UP

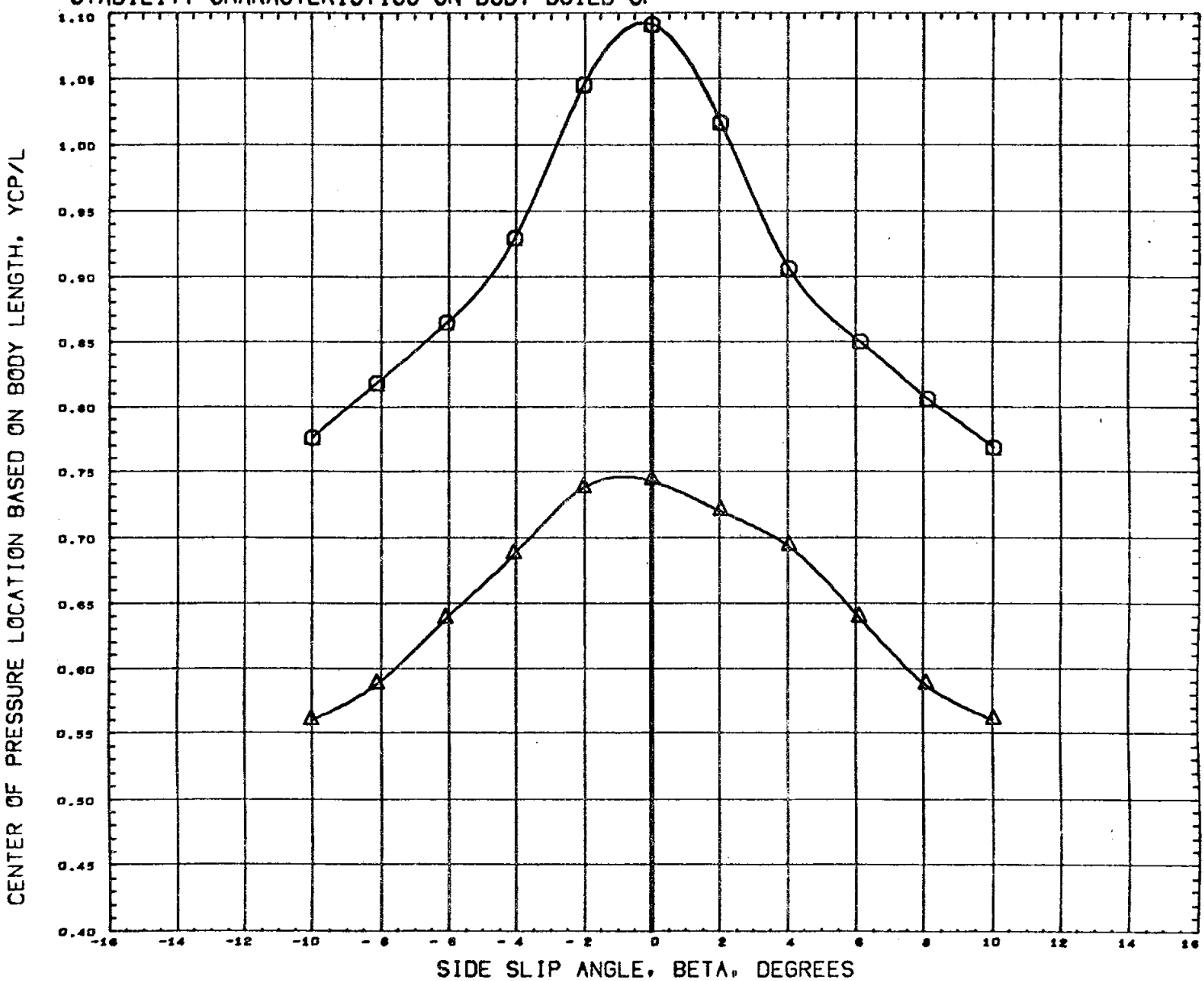


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

STABILITY CHARACTERISTICS ON BODY BUILD-UP

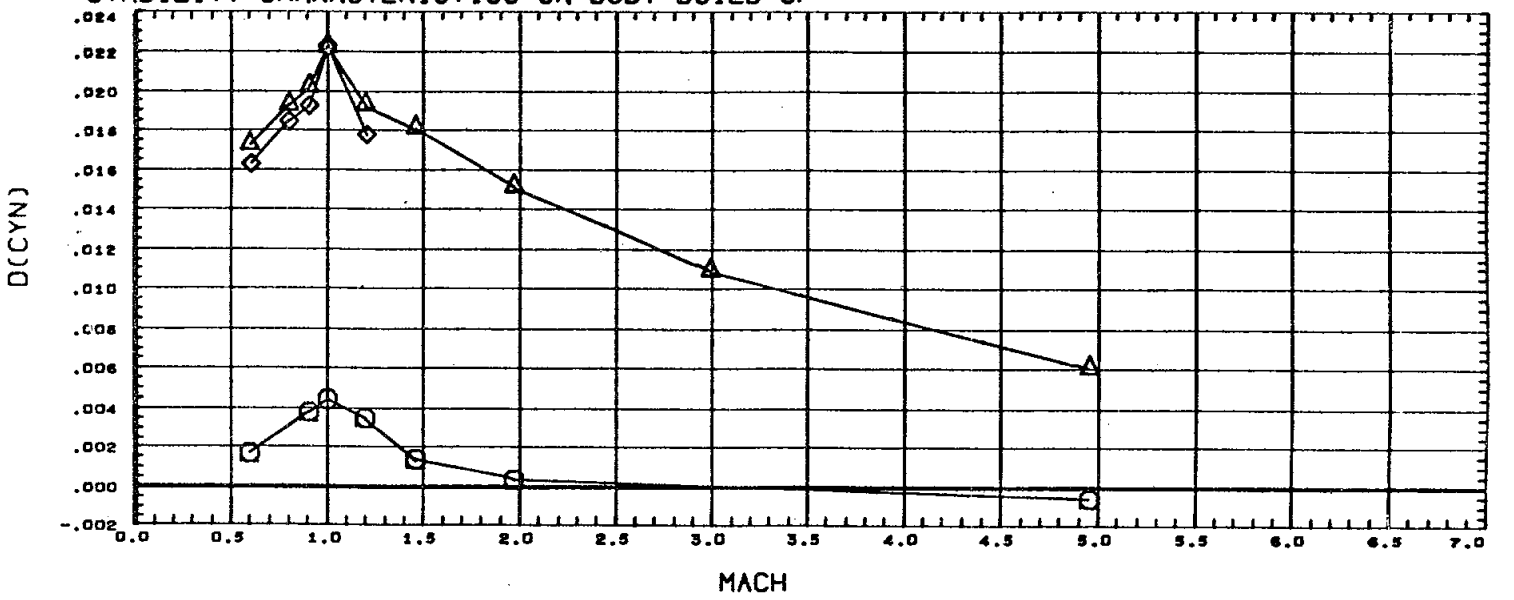


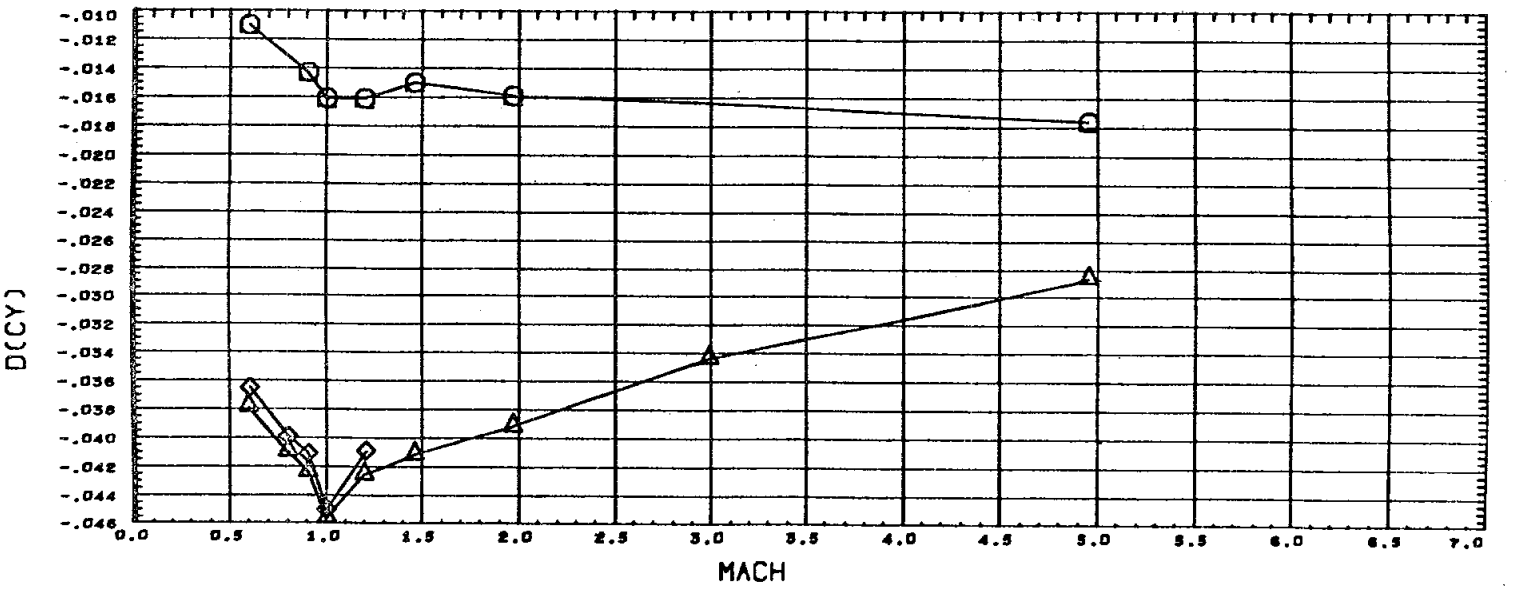
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

STABILITY CHARACTERISTICS ON BODY BUILD-UP



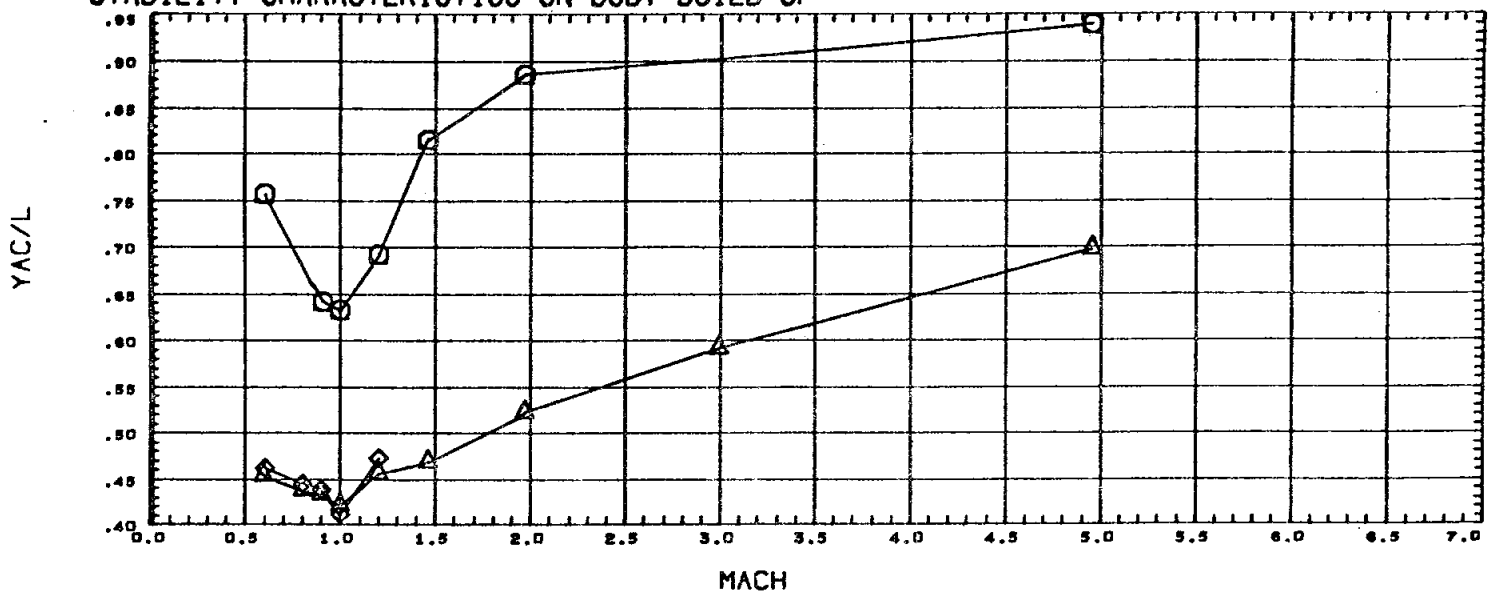


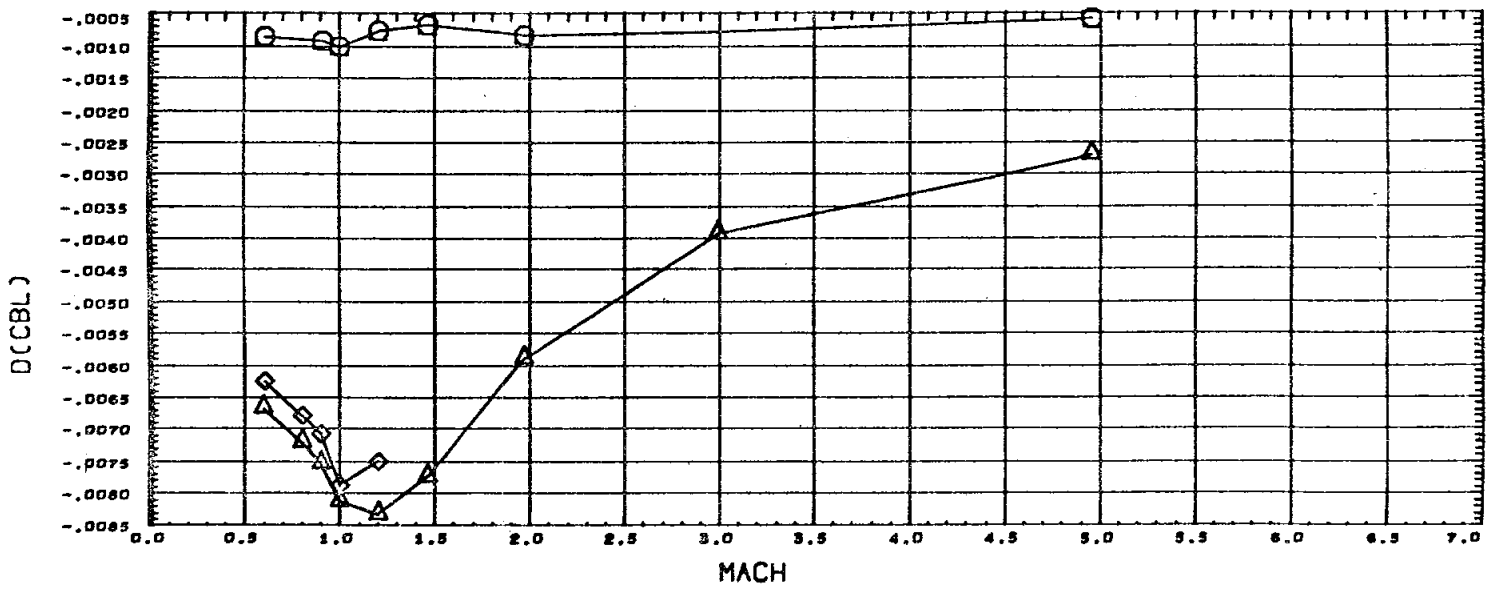
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

STABILITY CHARACTERISTICS ON BODY BUILD-UP

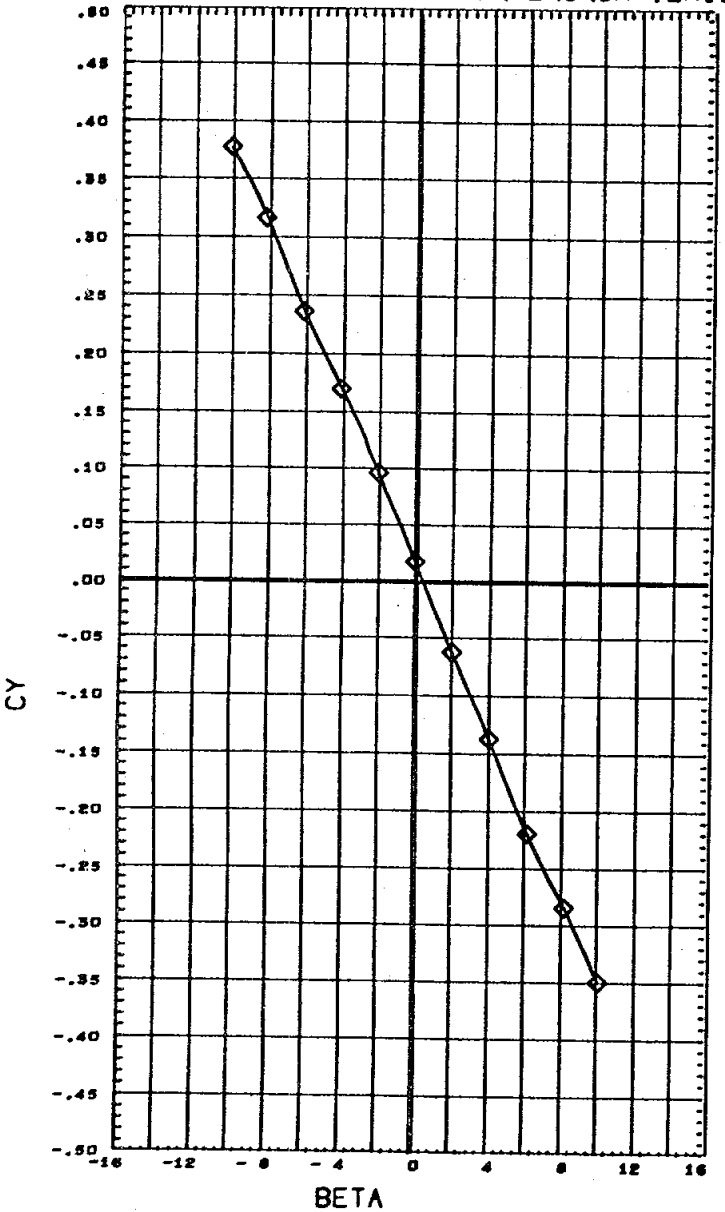


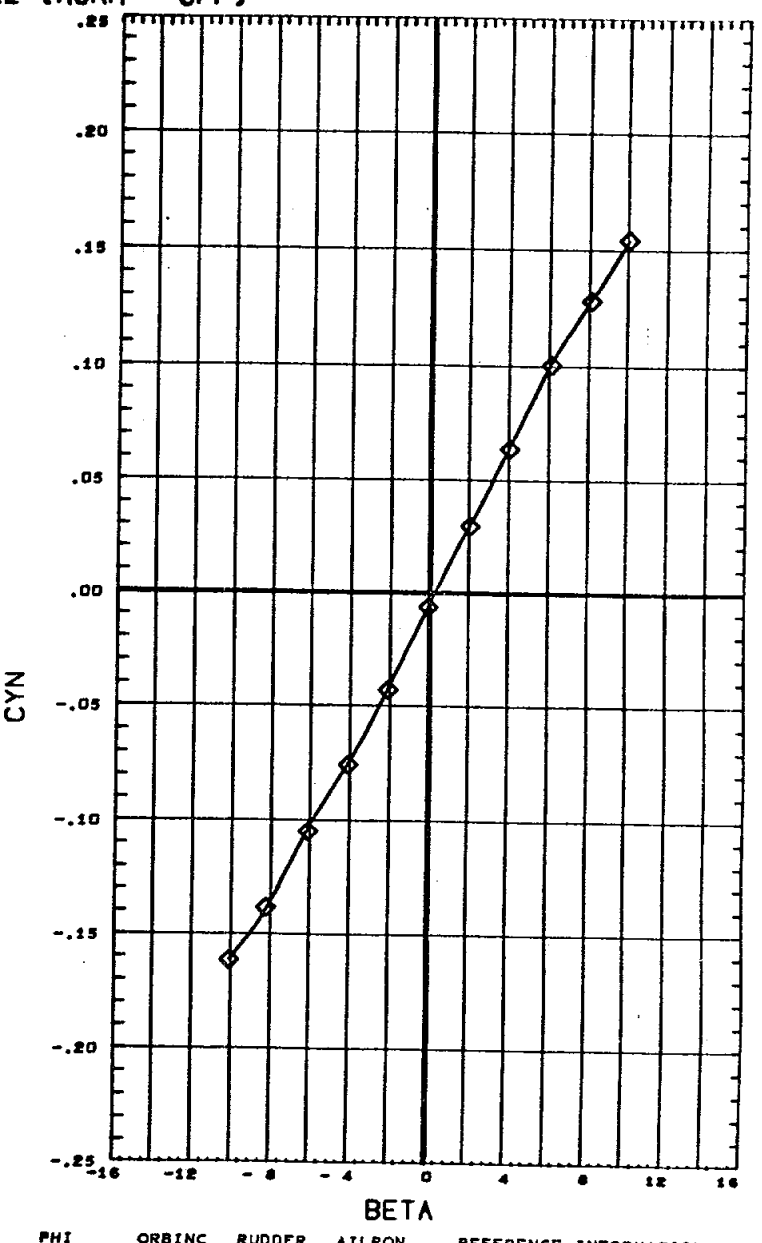


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(C77007)	△	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





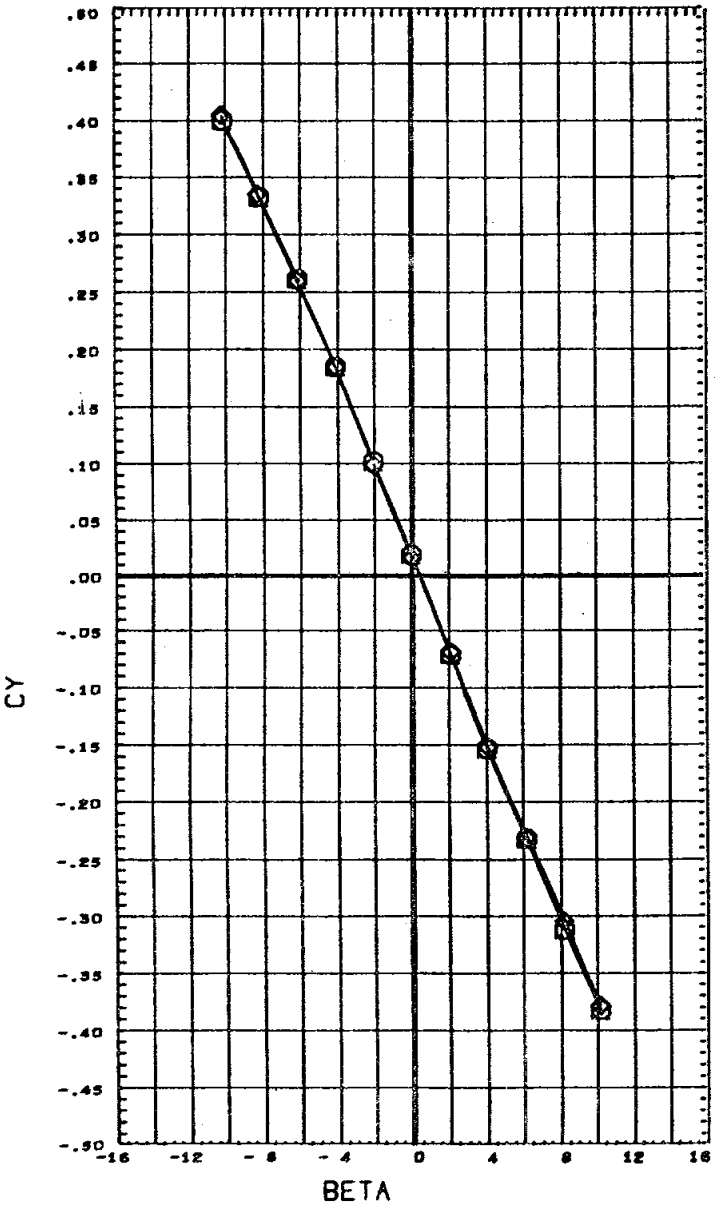
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77011)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

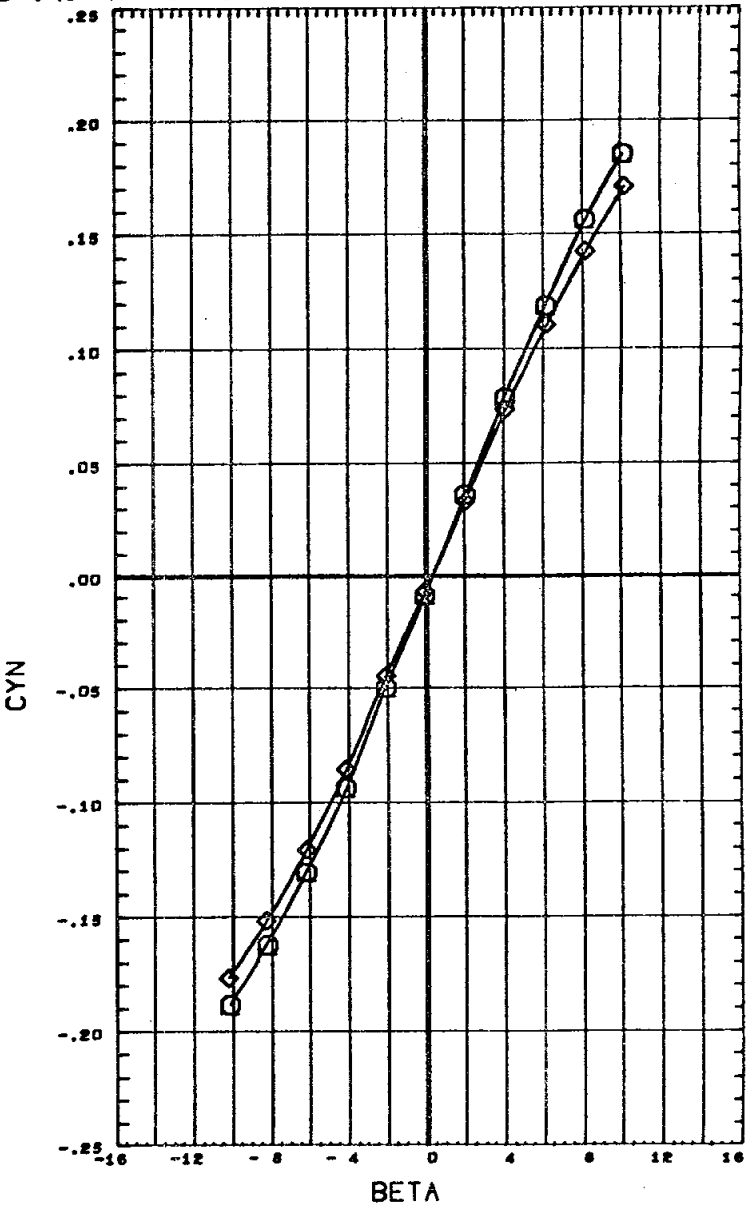
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.0200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





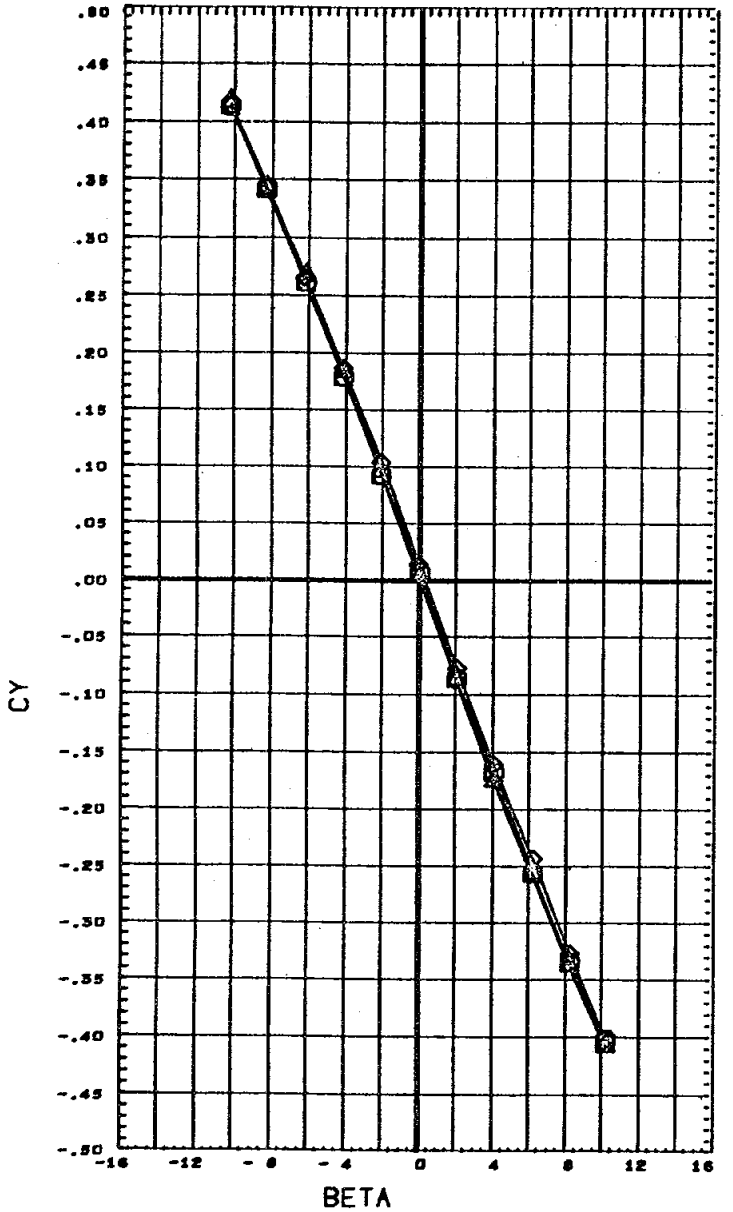
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

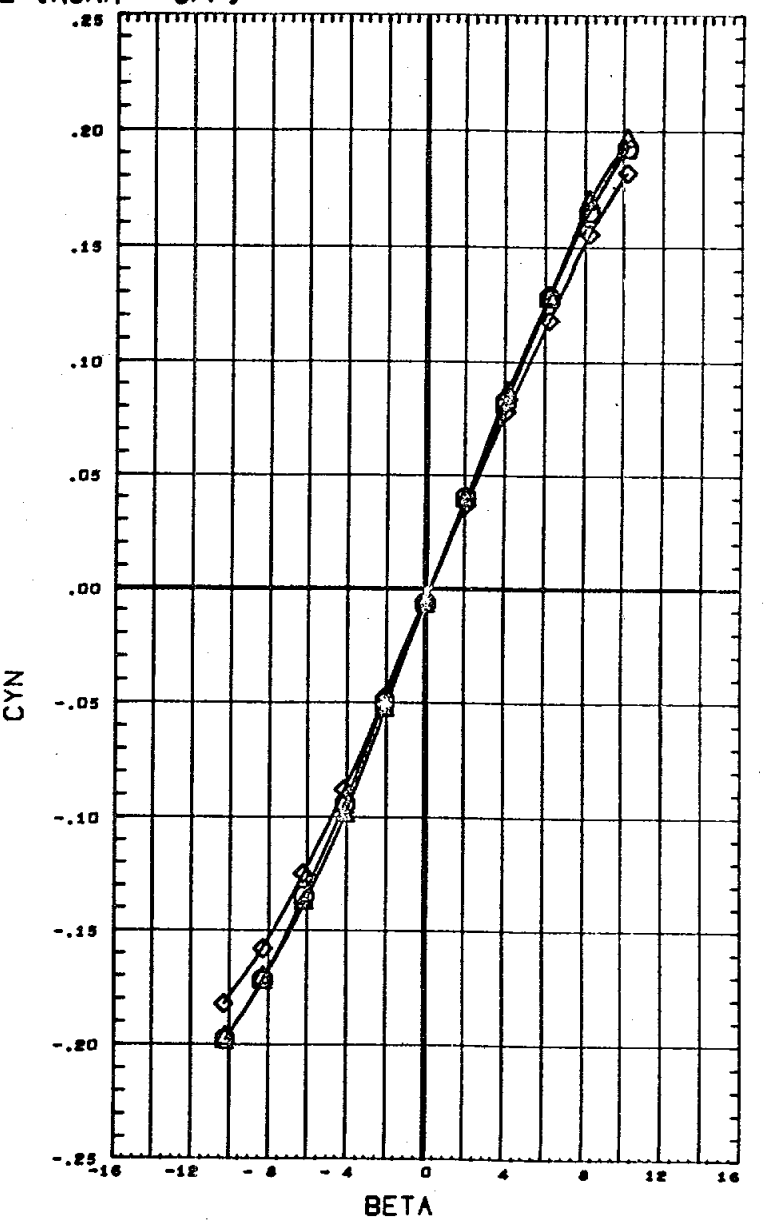
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





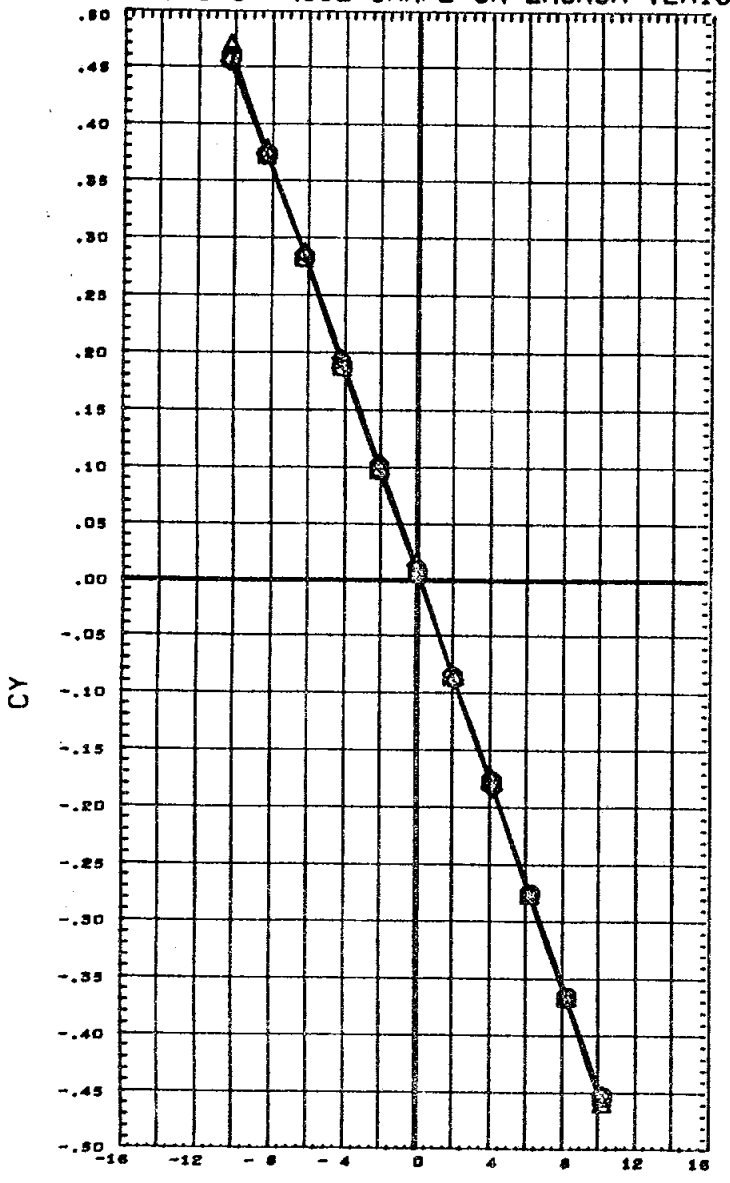
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

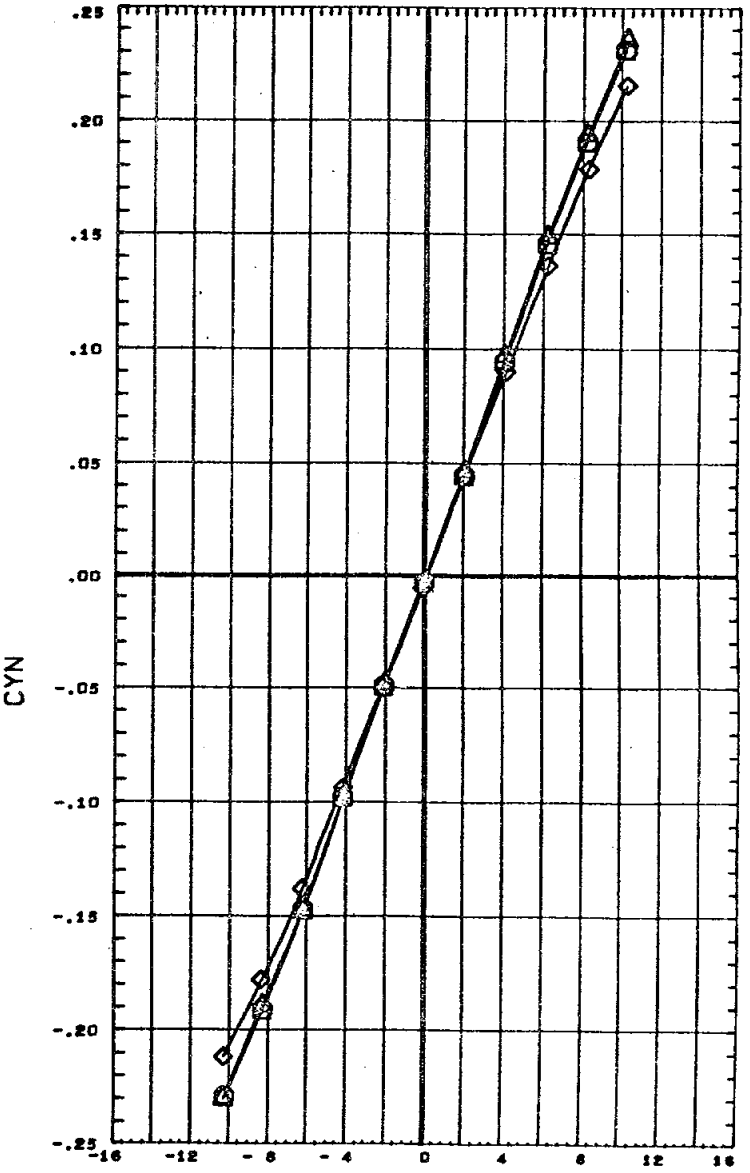
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





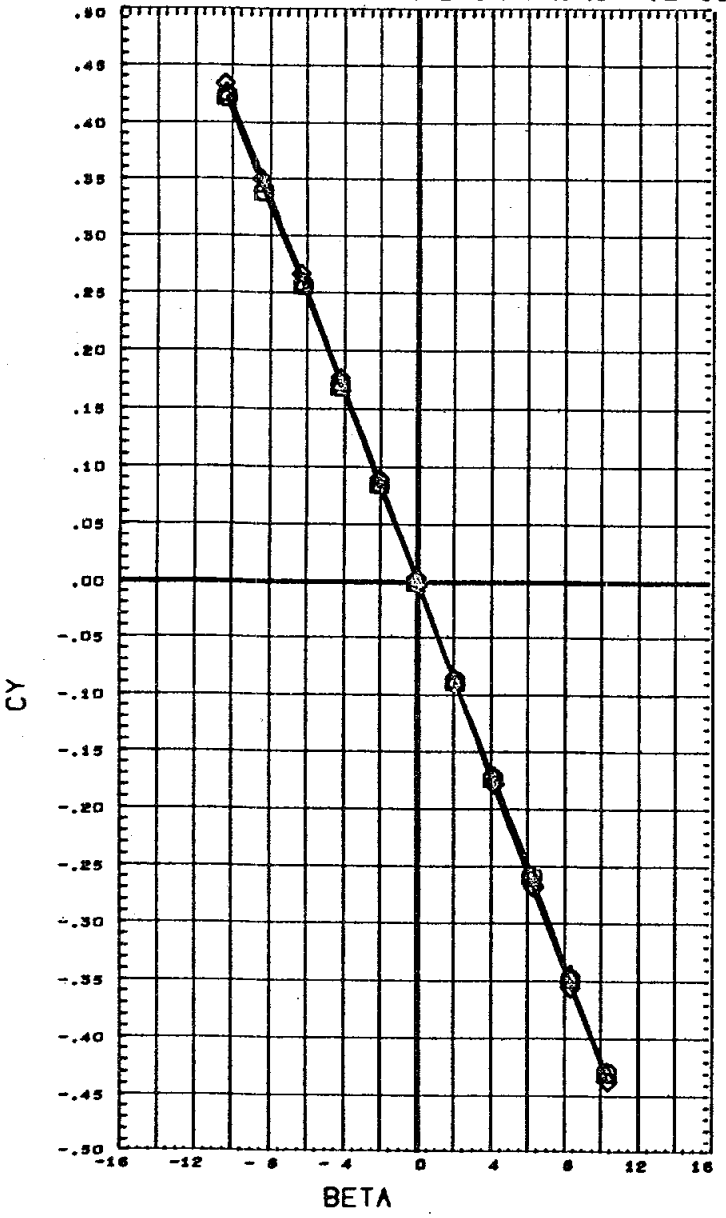
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

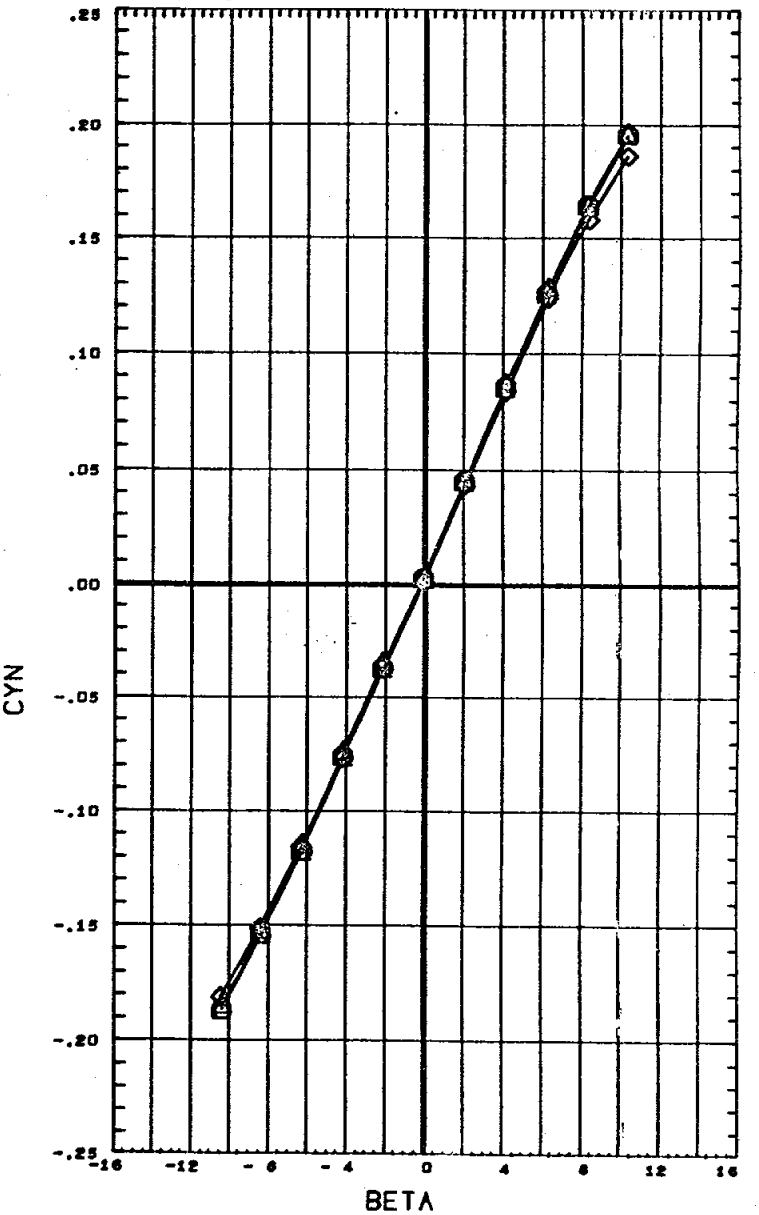
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





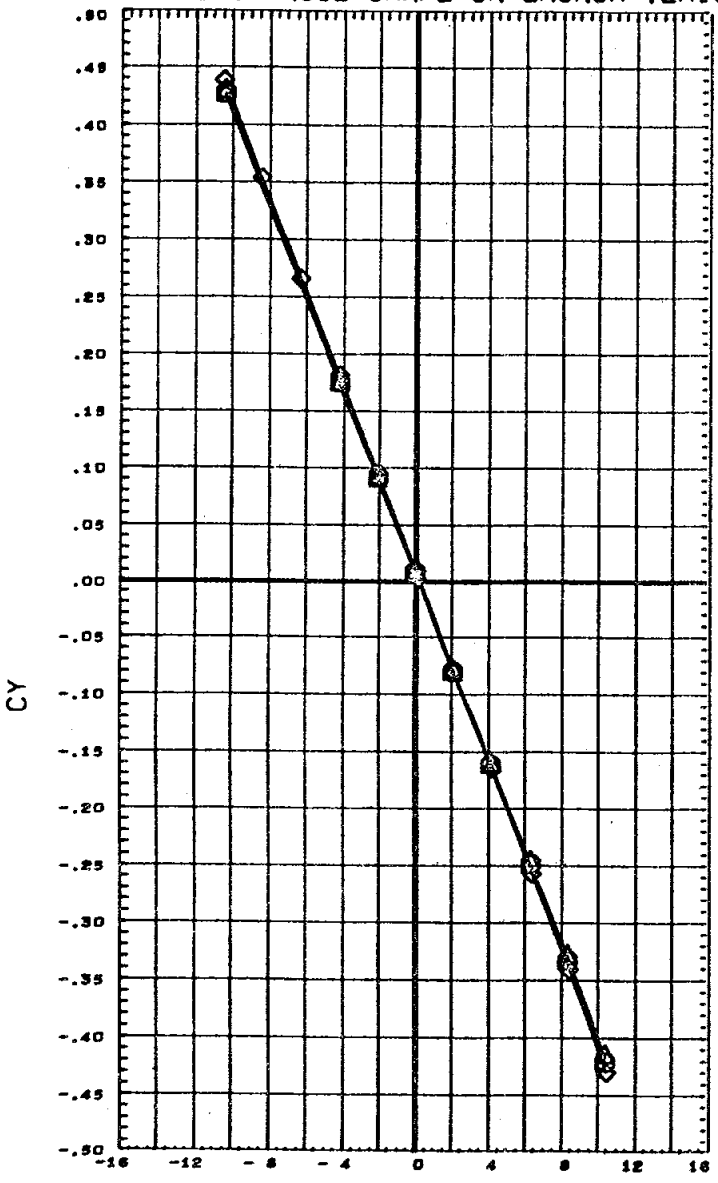
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

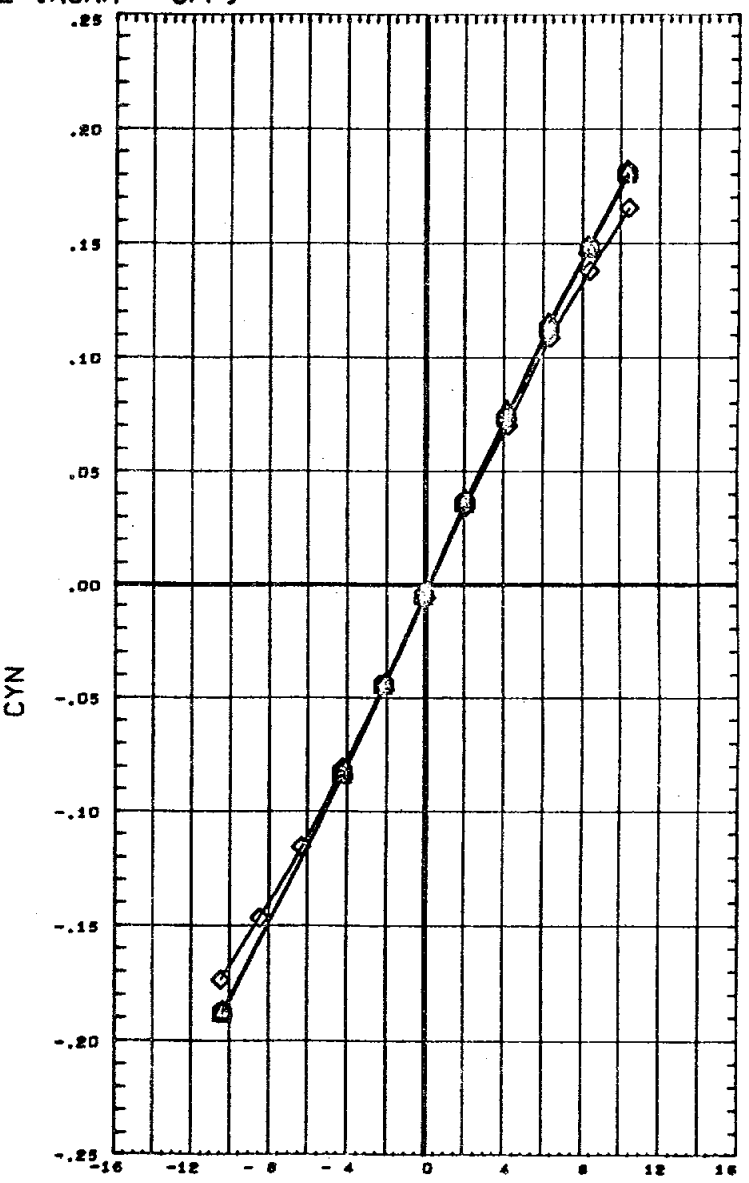
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





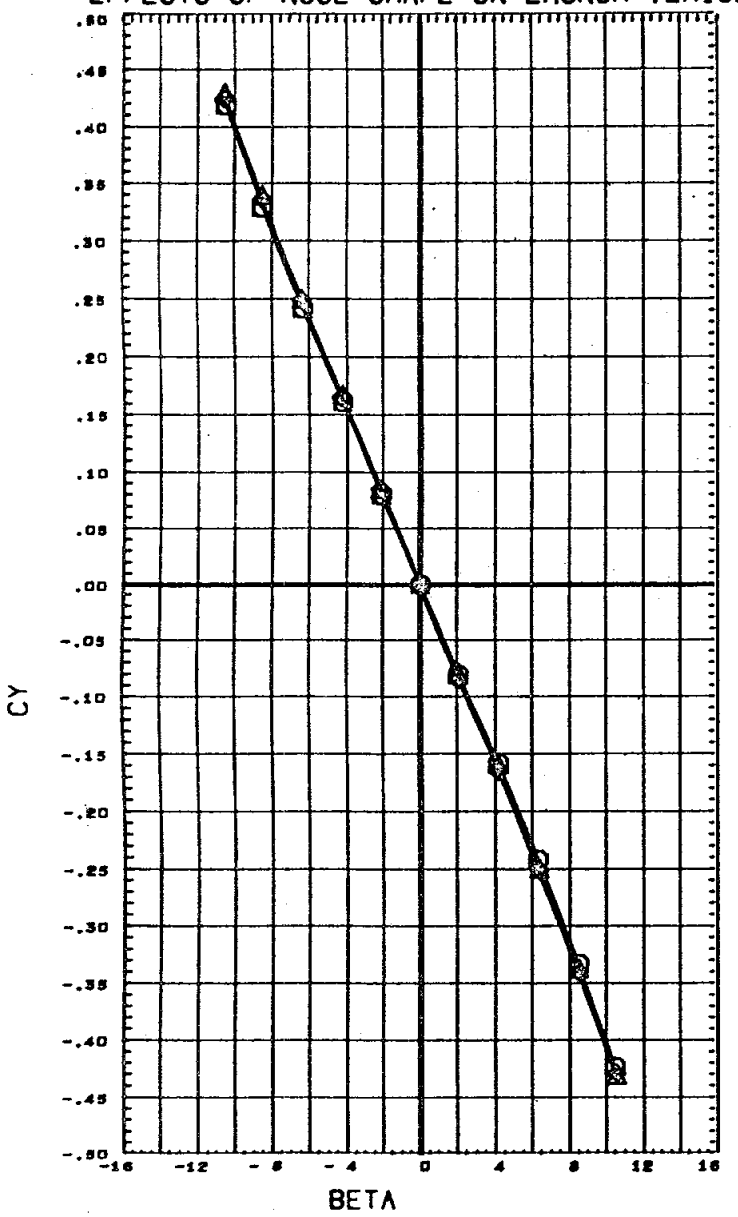
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

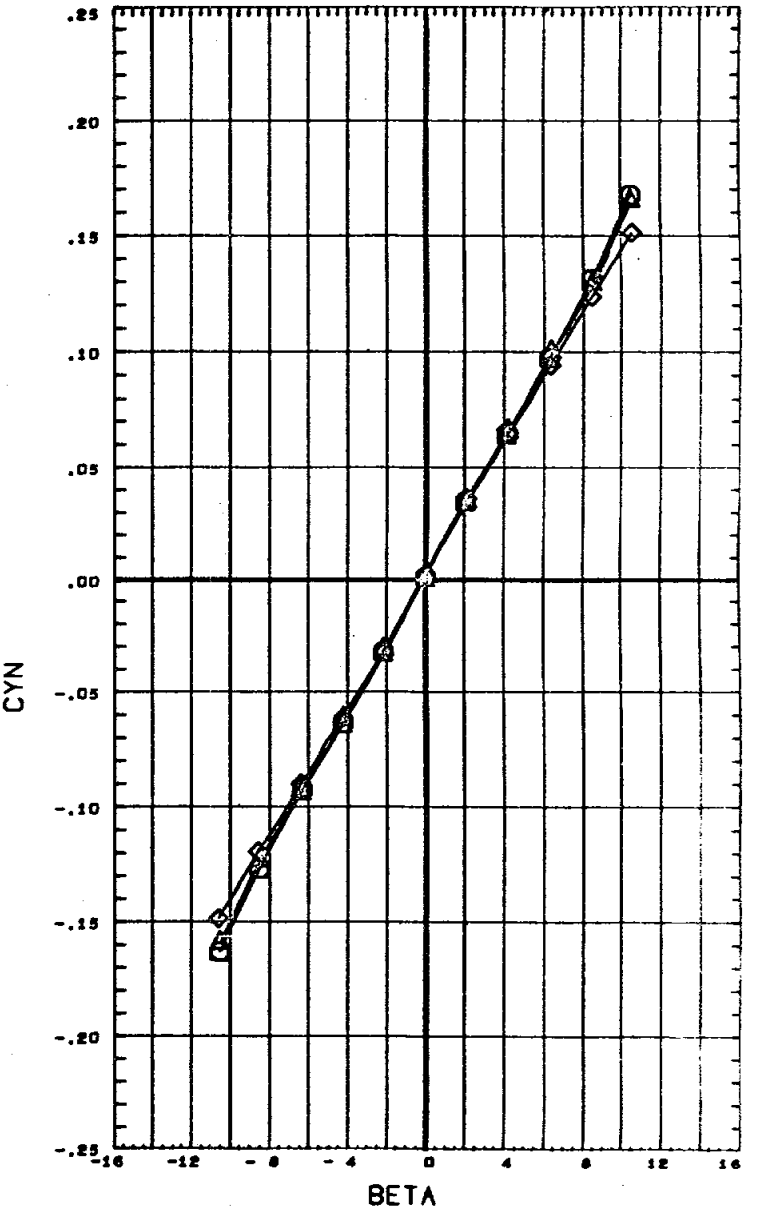
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





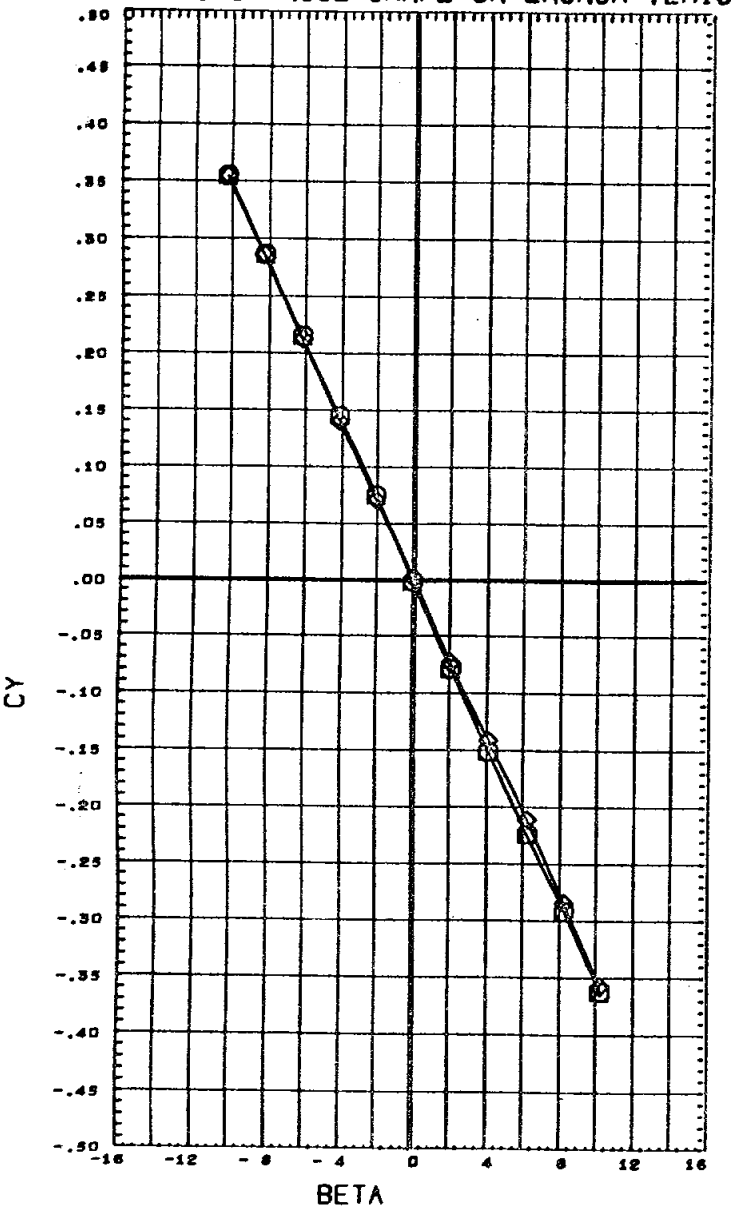
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

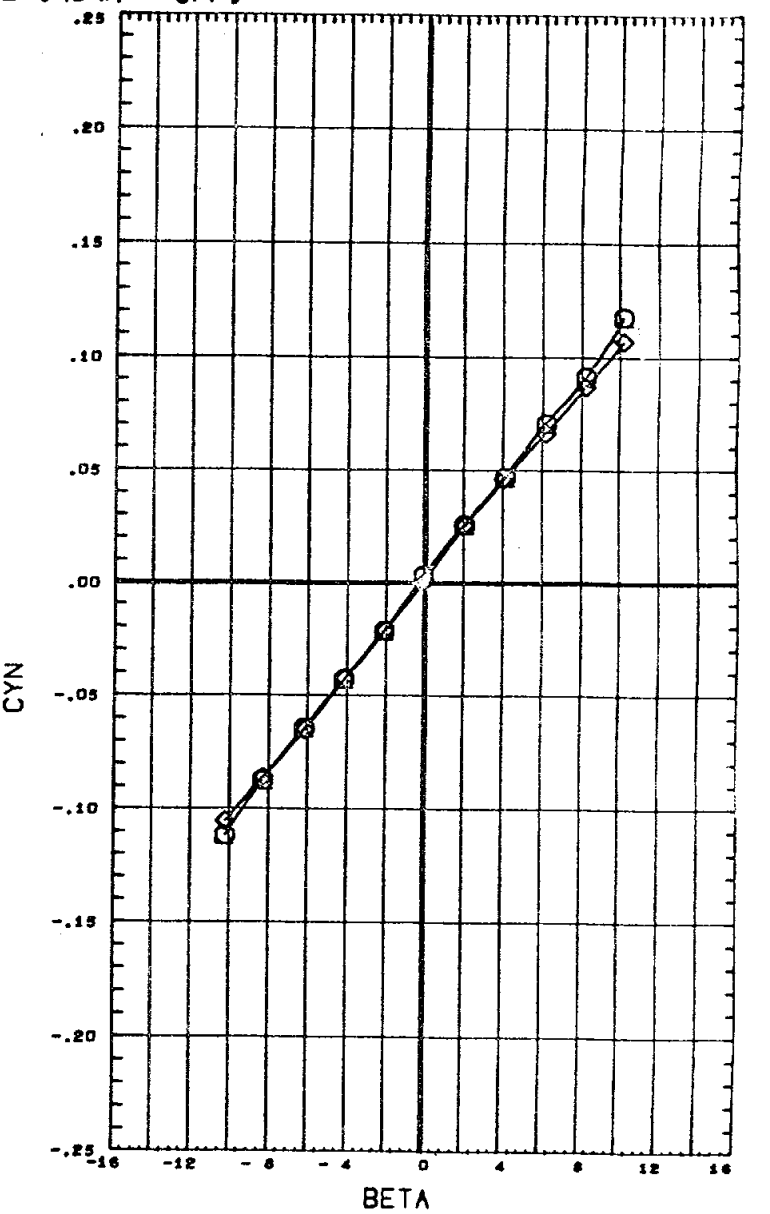
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





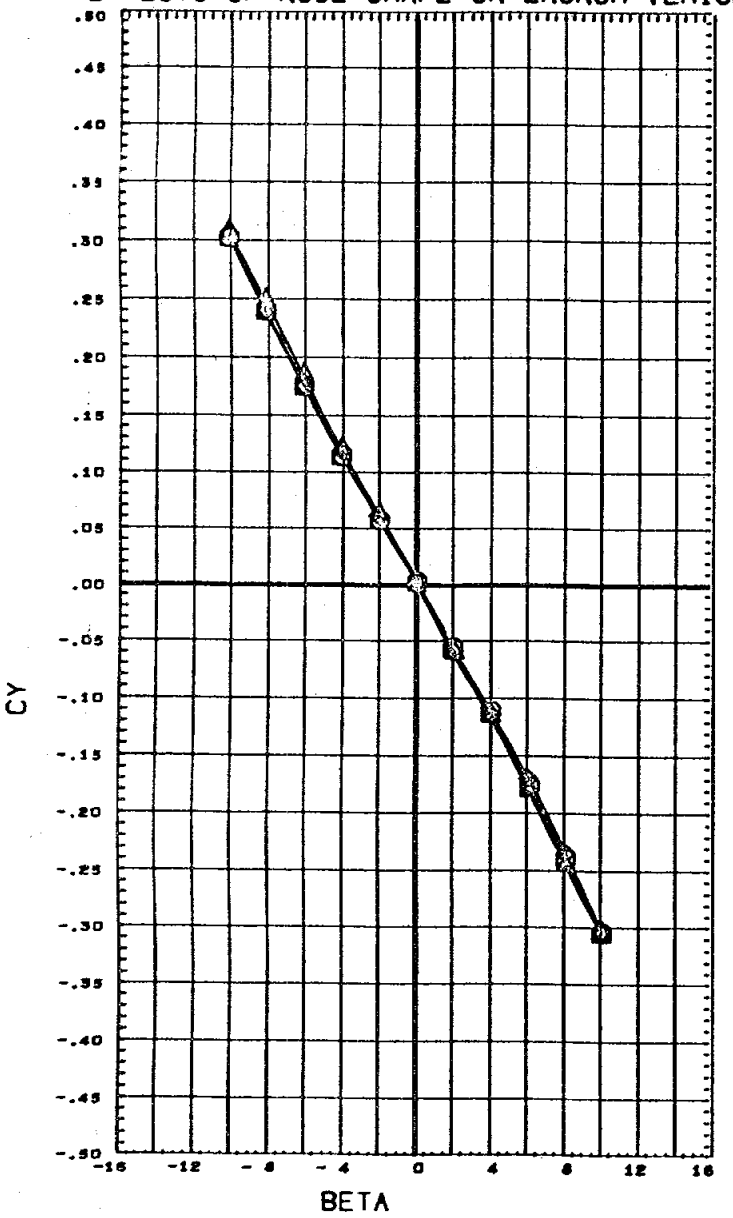
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	⊠	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

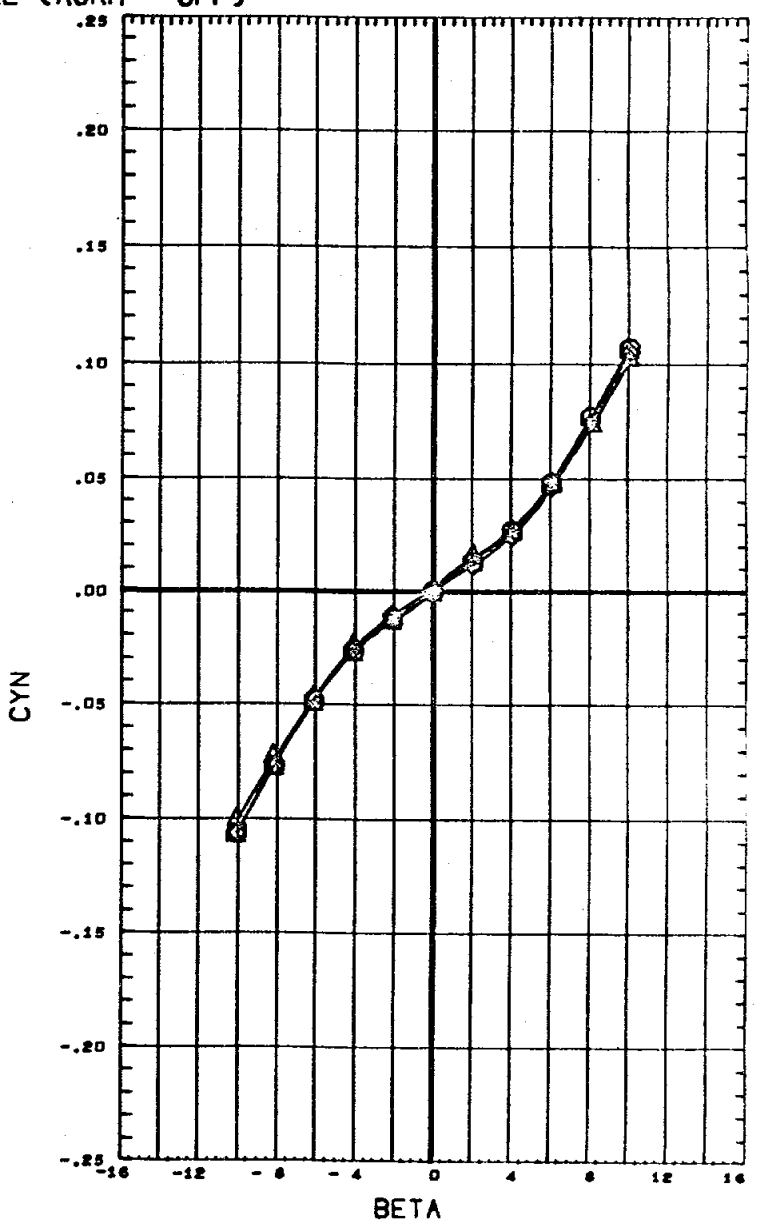
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





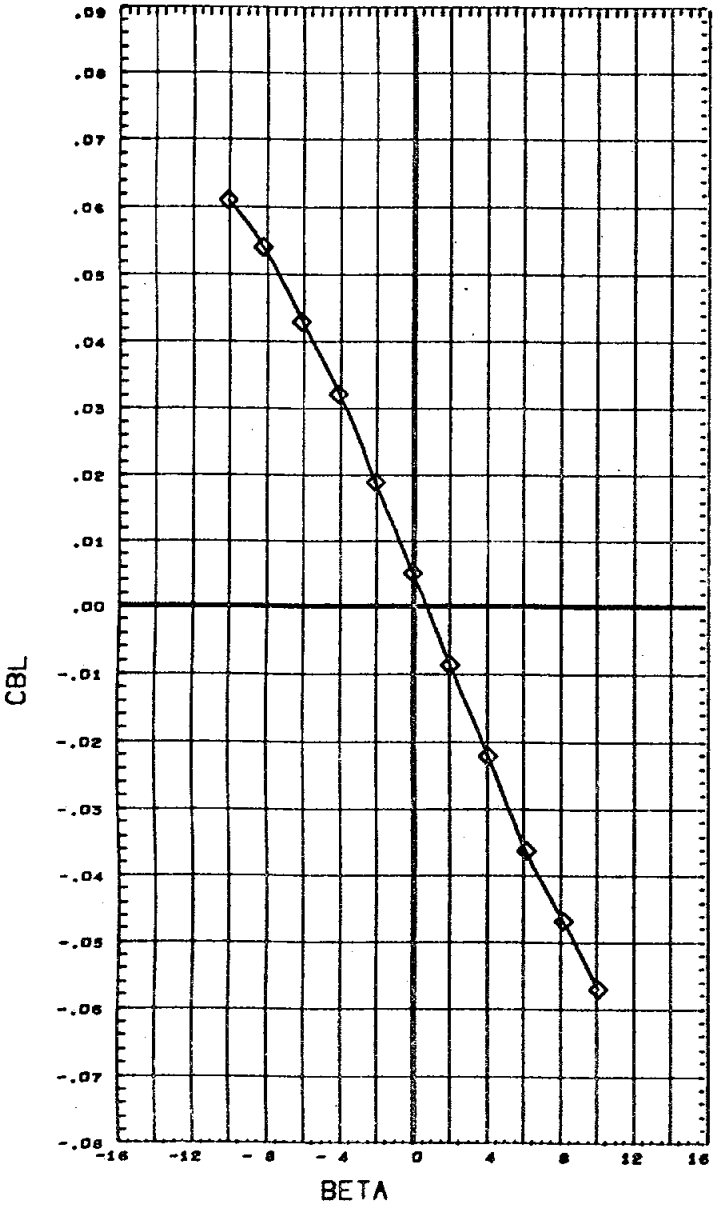
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

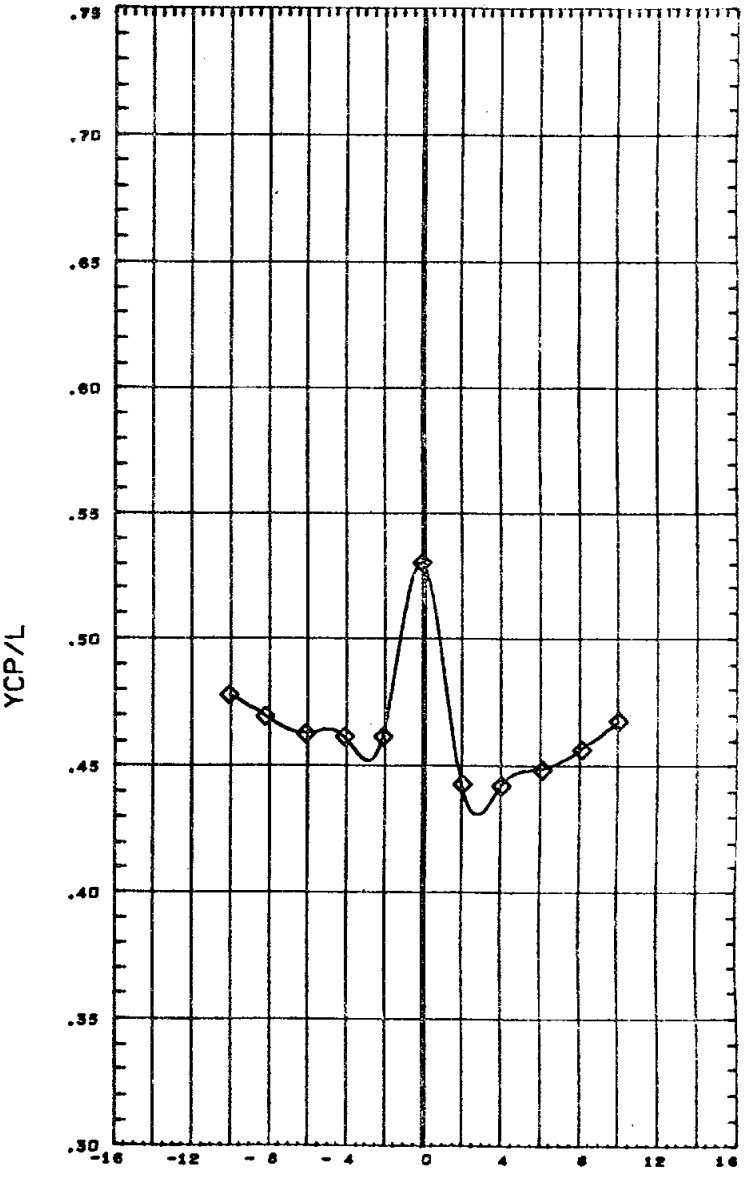
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





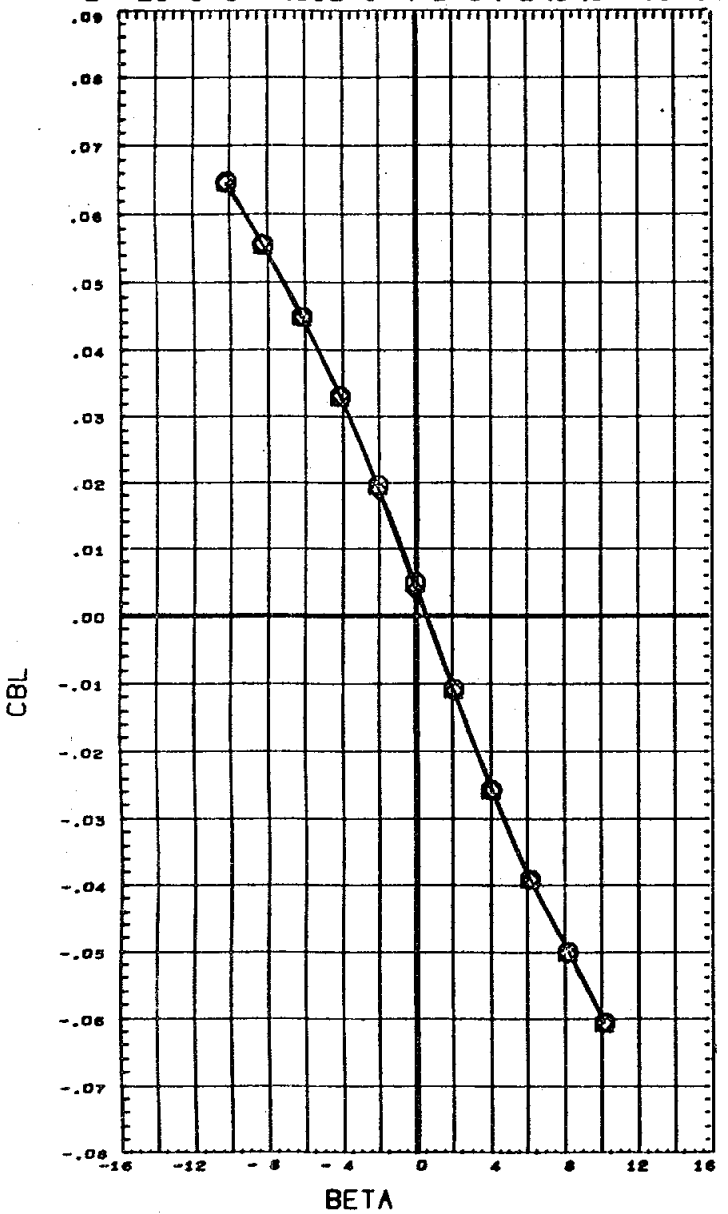
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77015)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77011)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	◇	M556(IA1) NAR ATP BL LV (01)(T3)(S1)

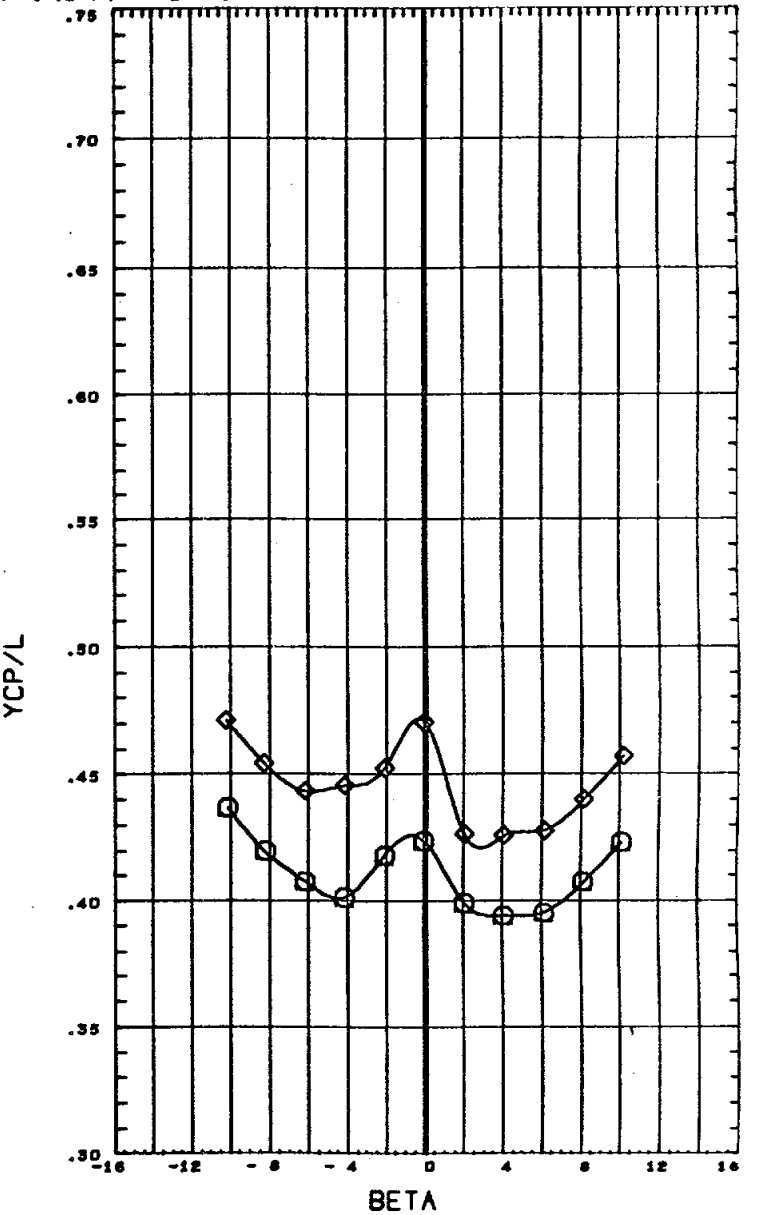
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





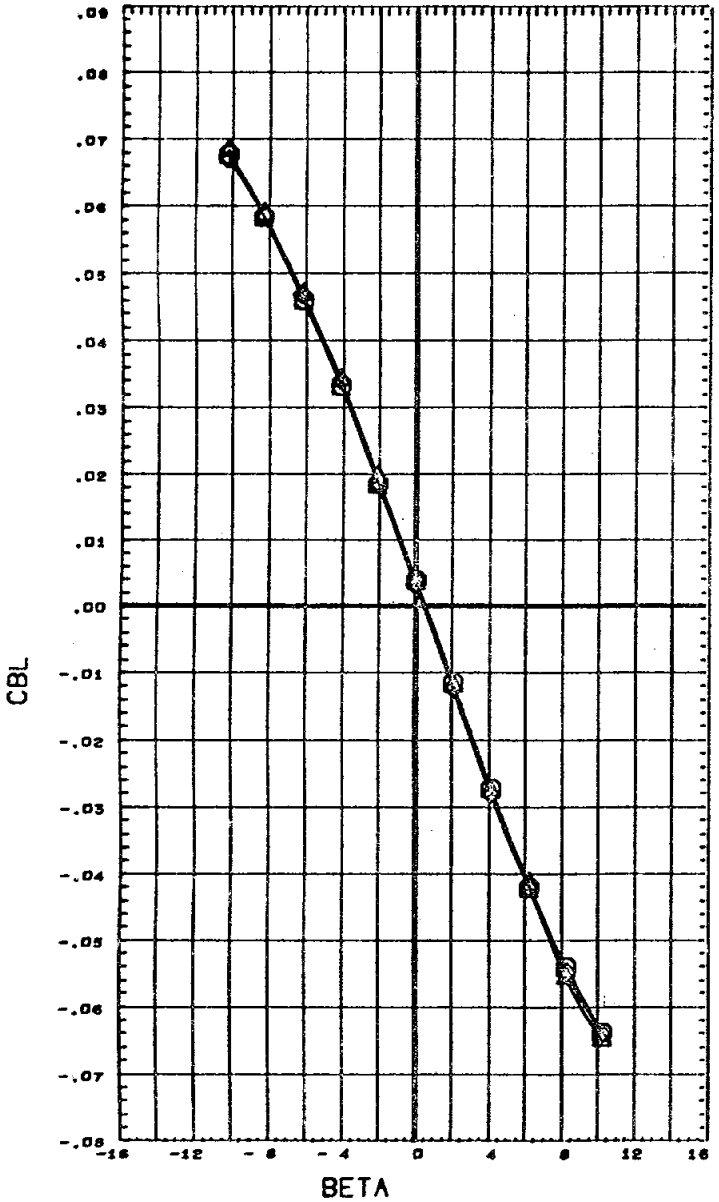
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

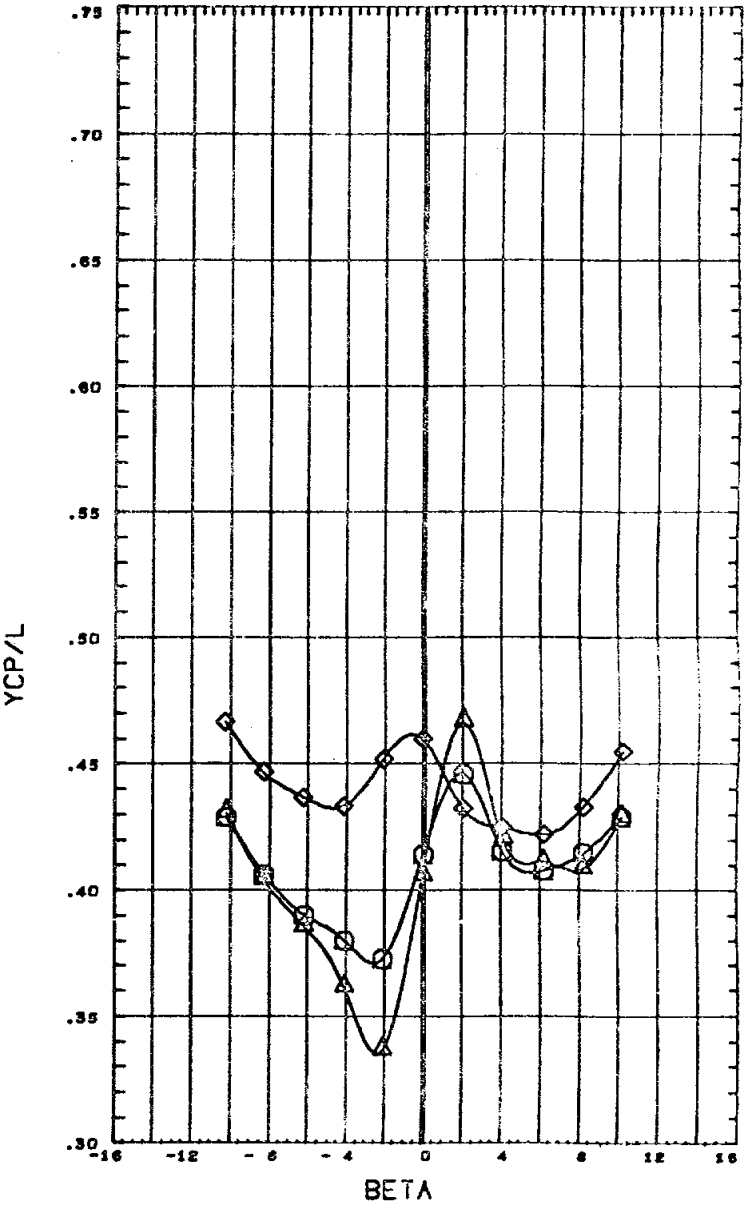
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





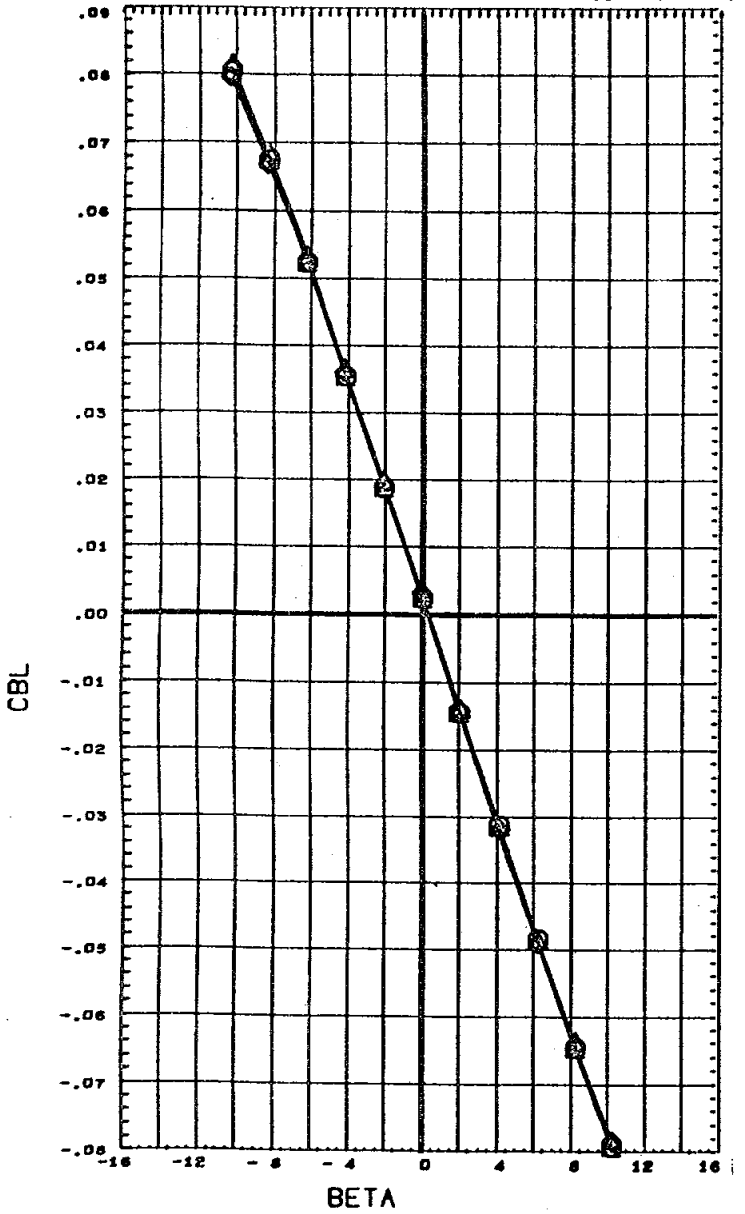
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

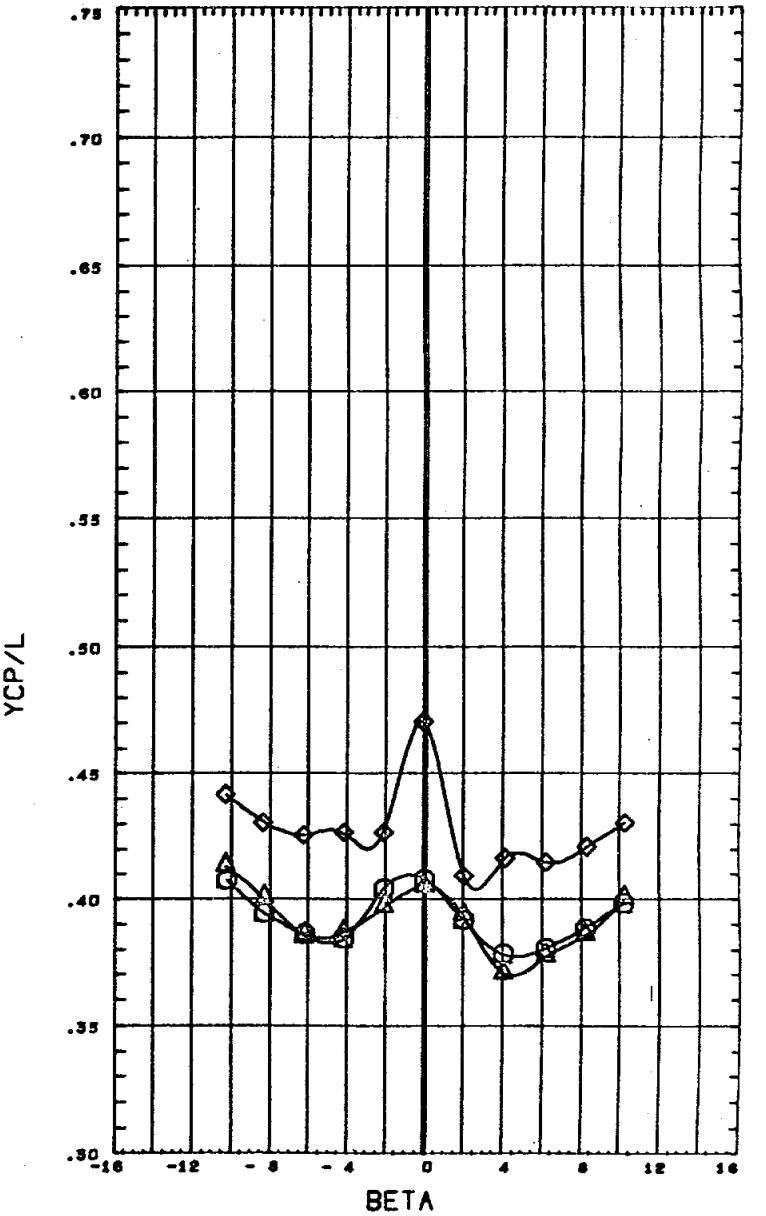
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





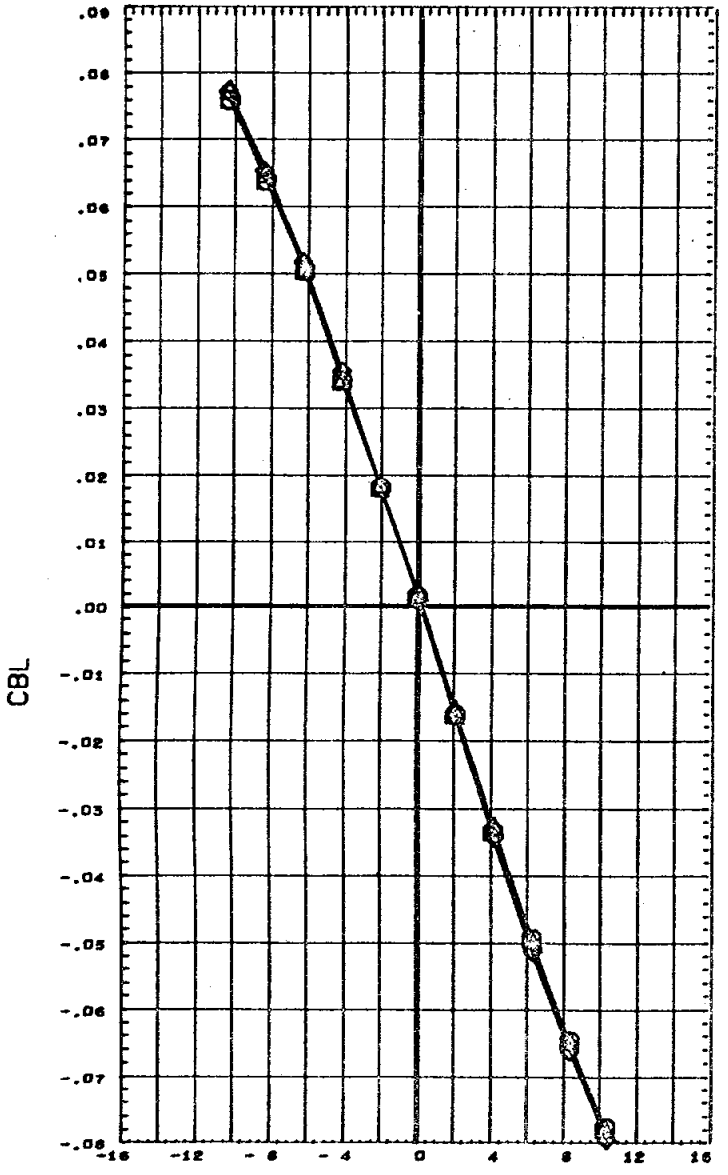
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

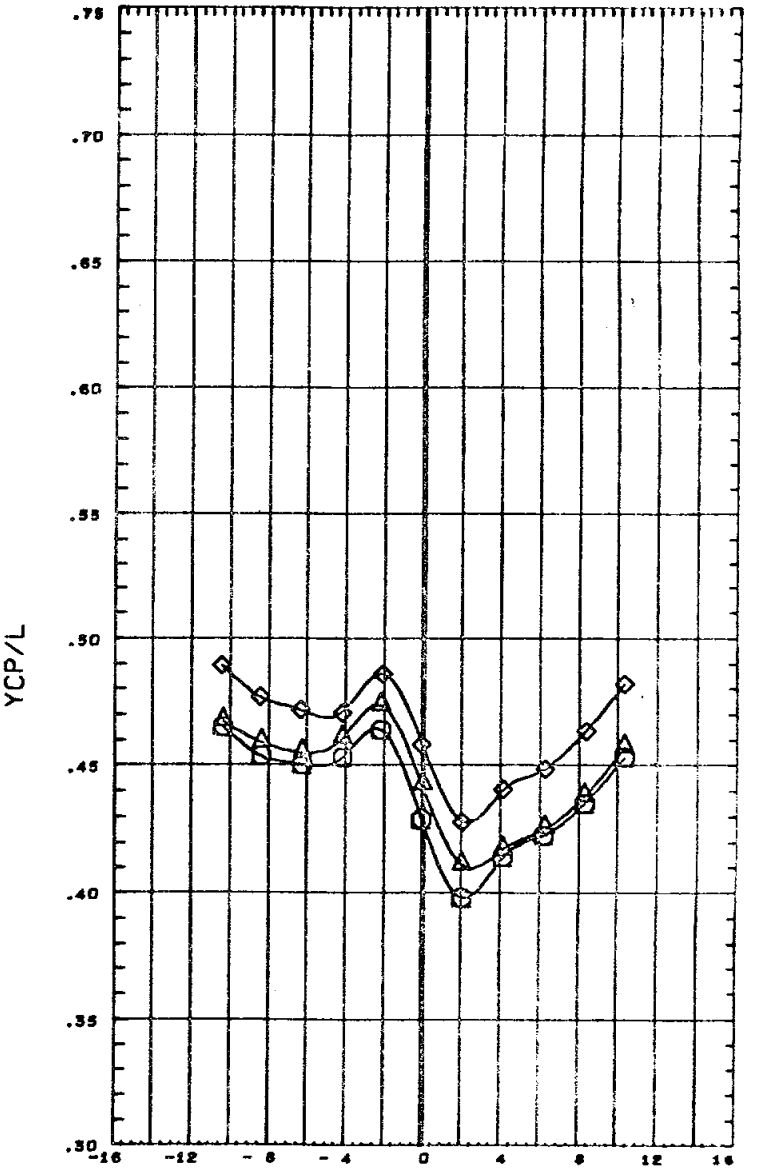
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





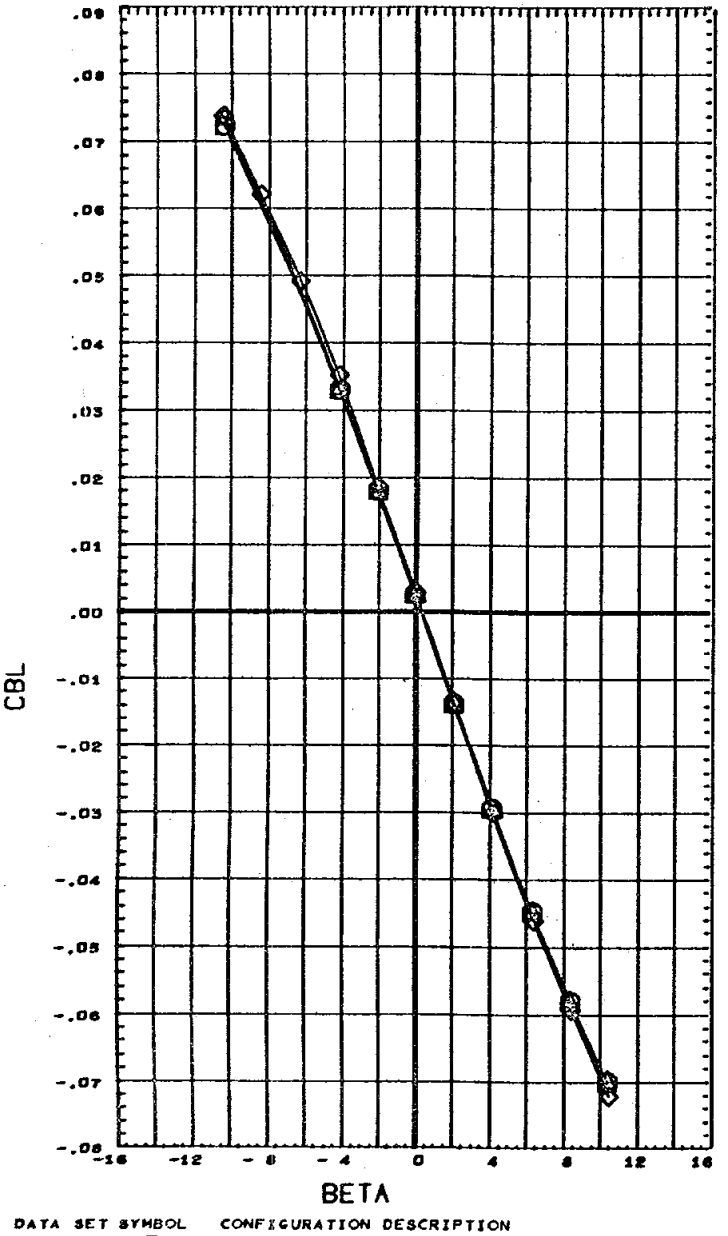
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

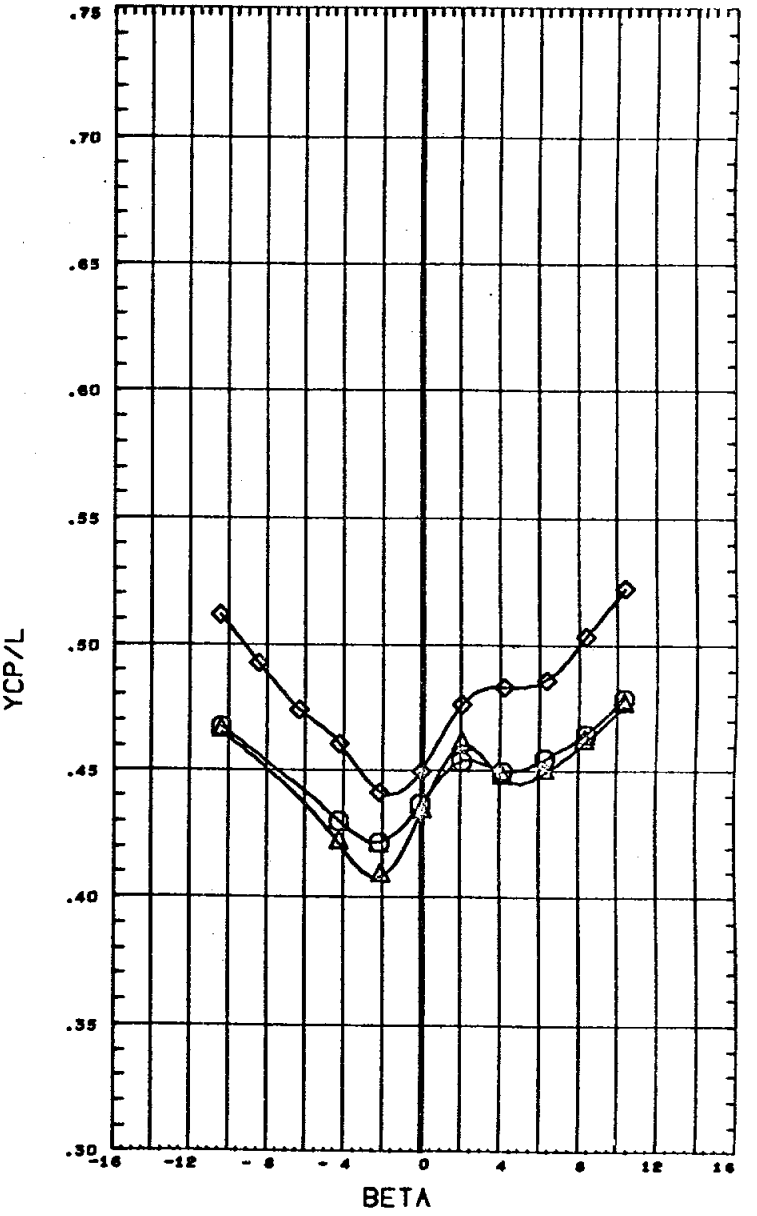
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





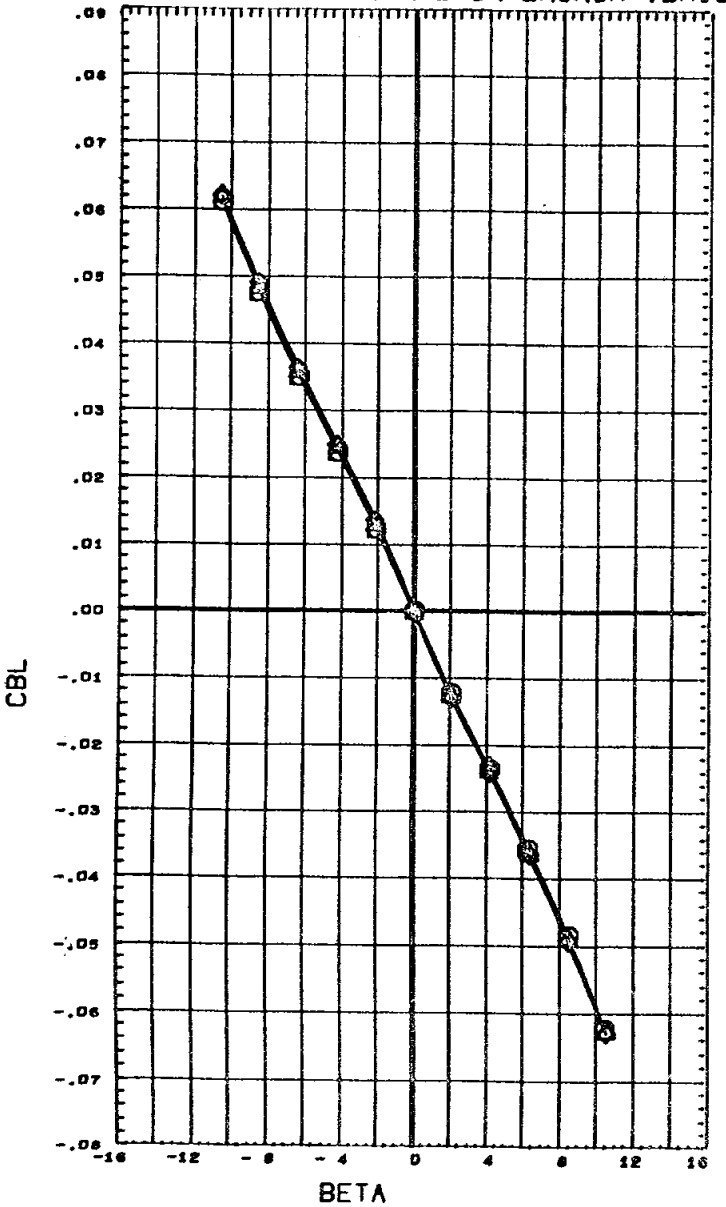
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

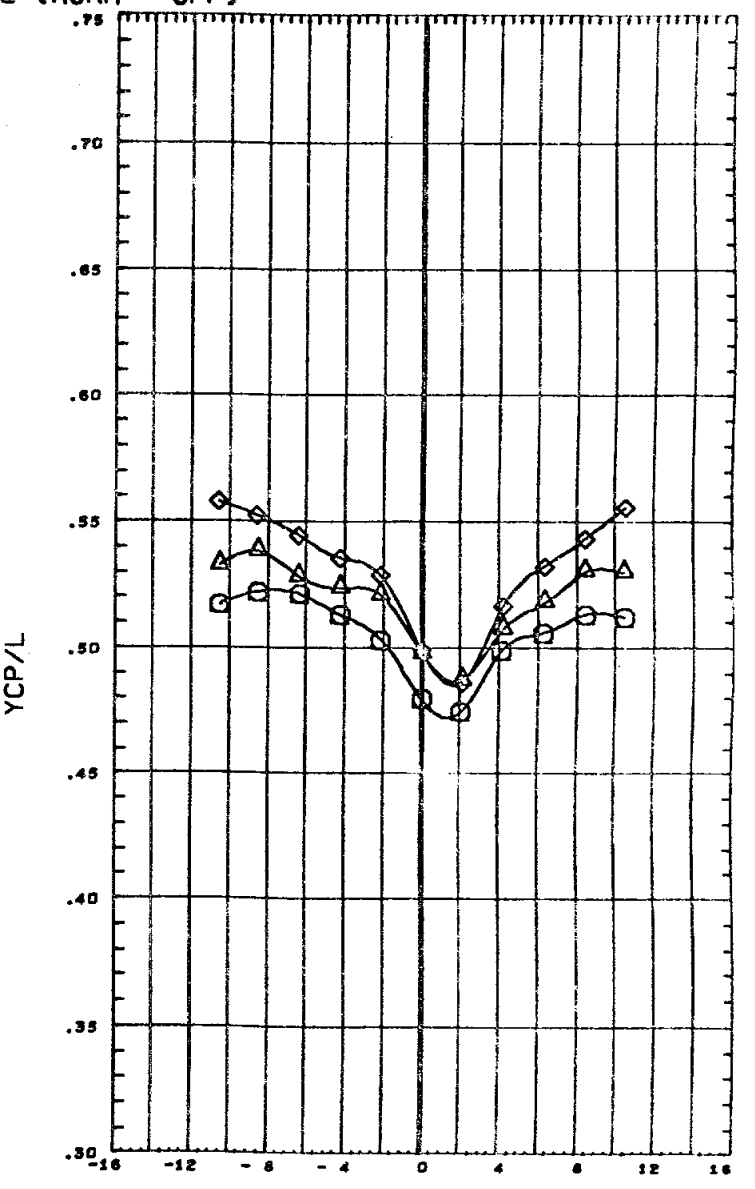
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





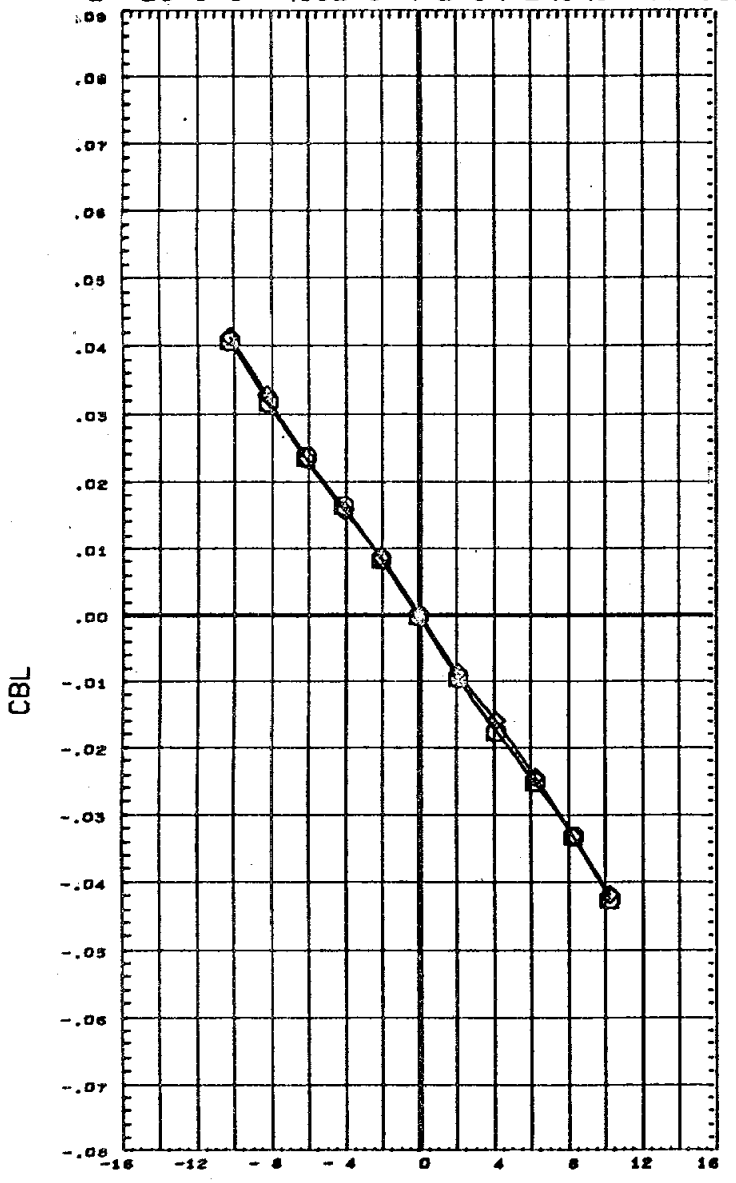
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

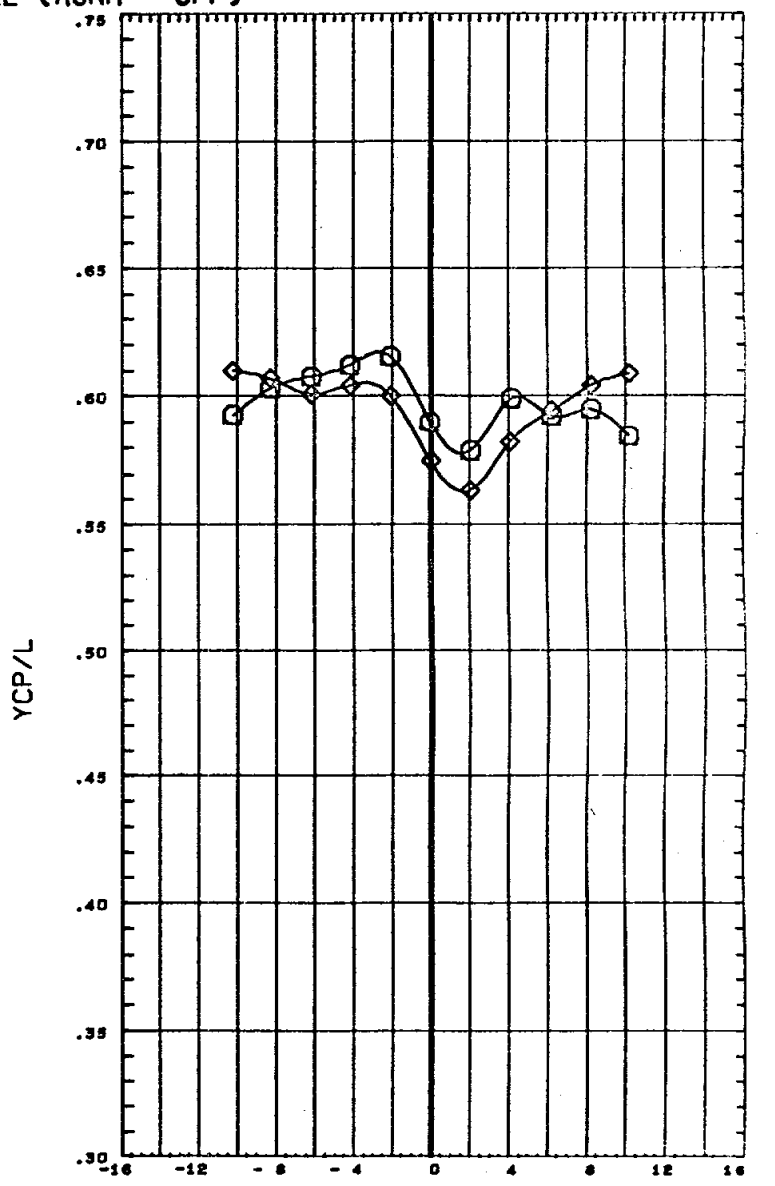
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





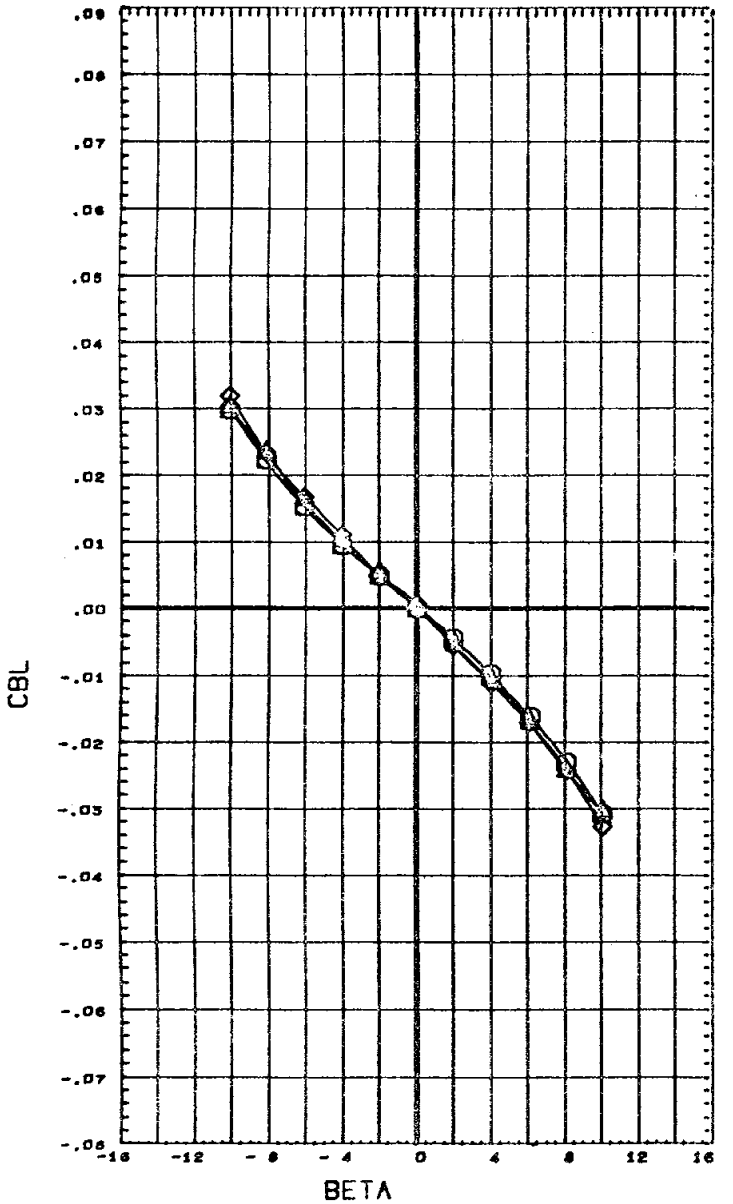
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

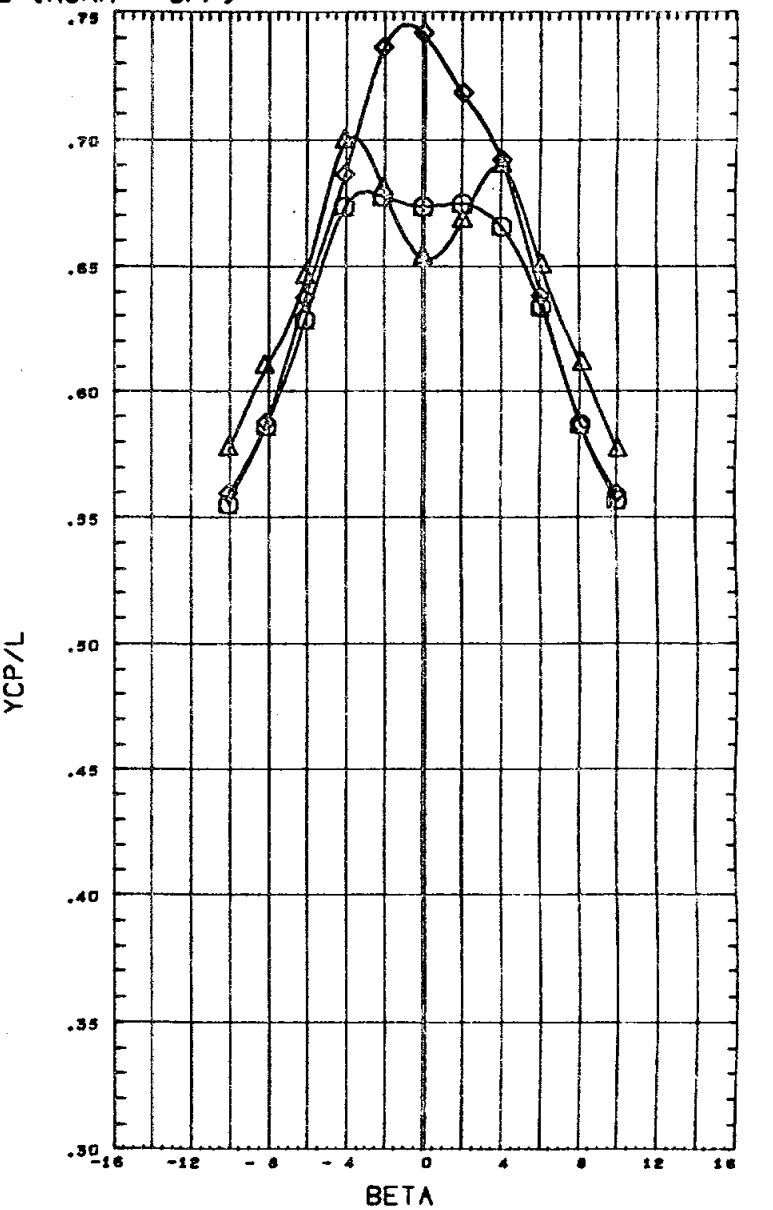
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)





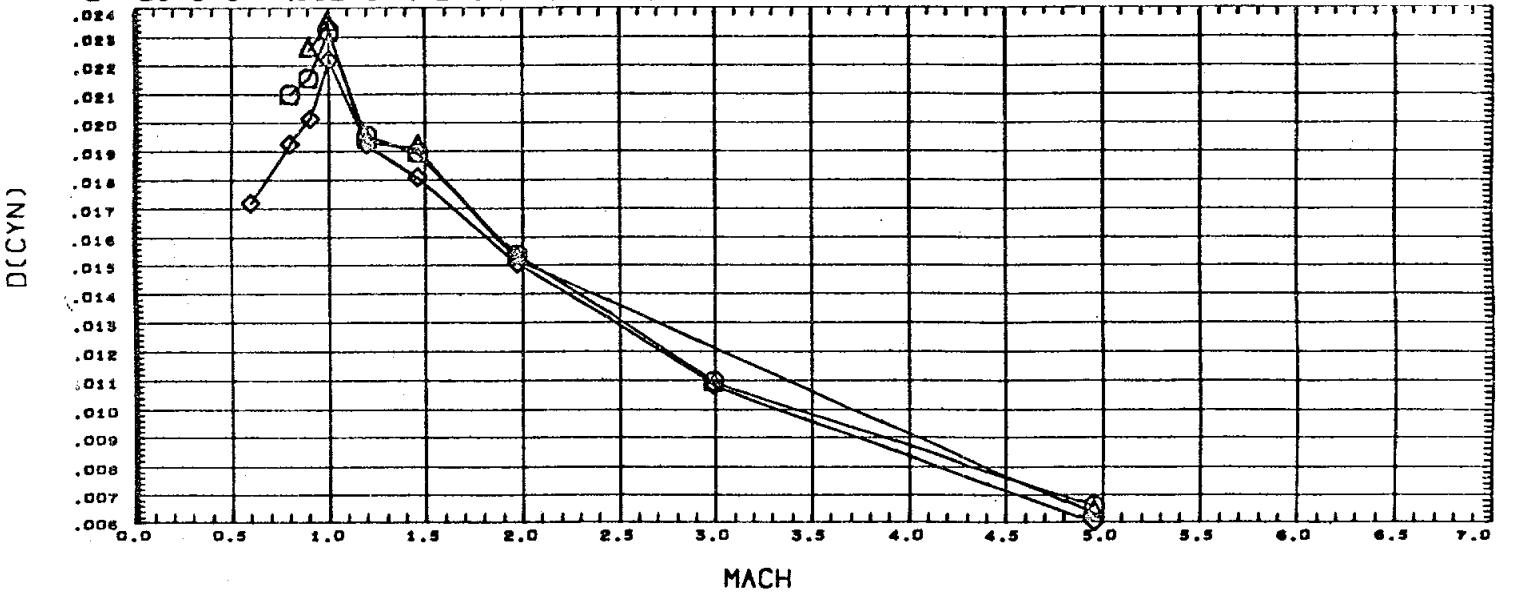
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

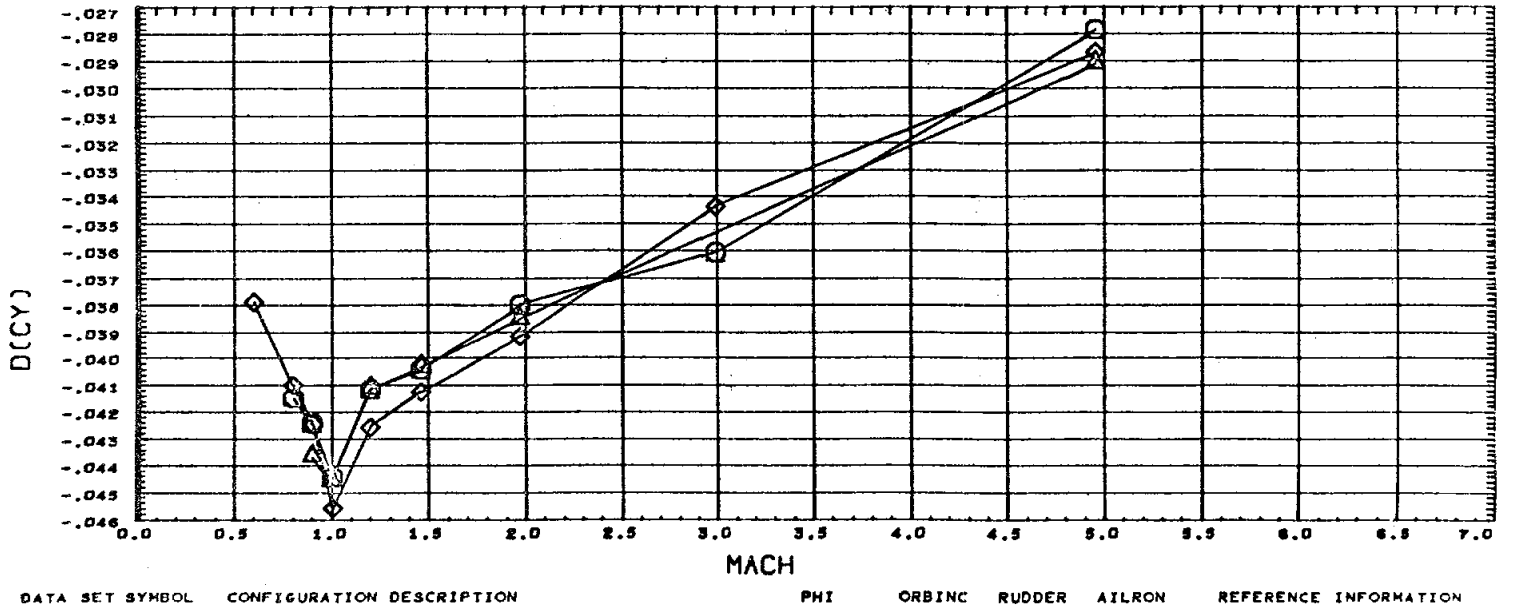
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)

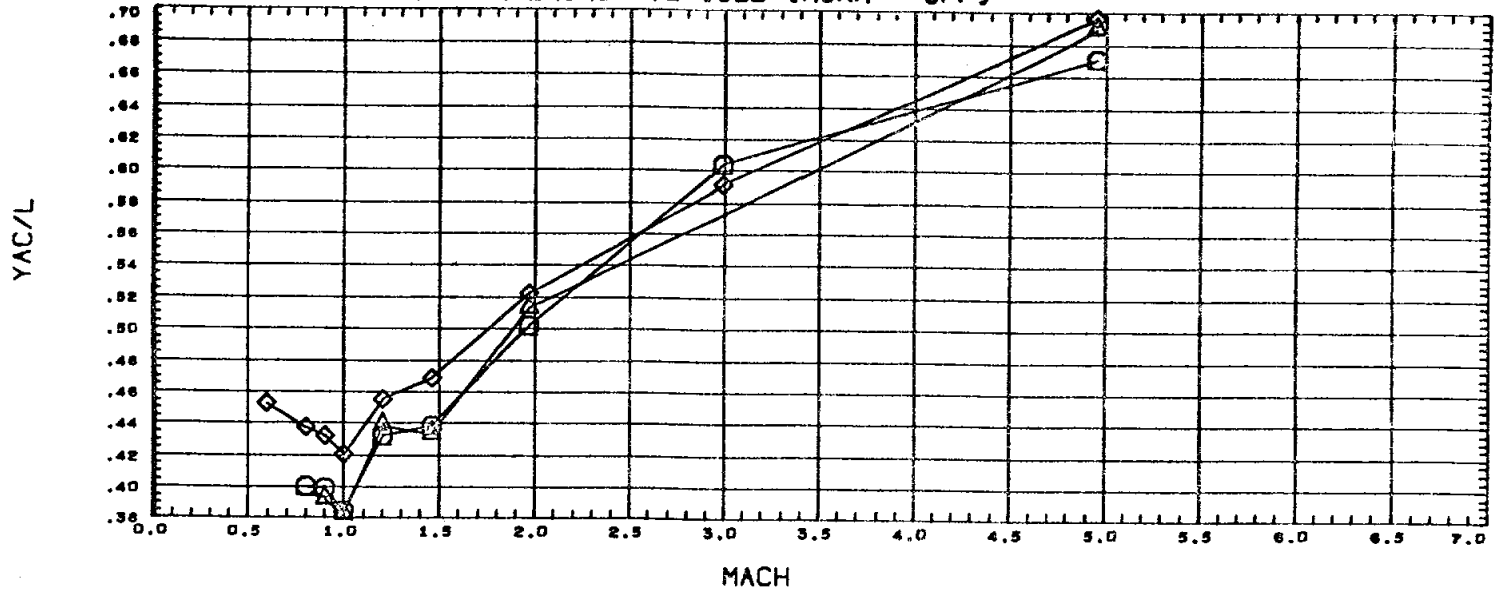


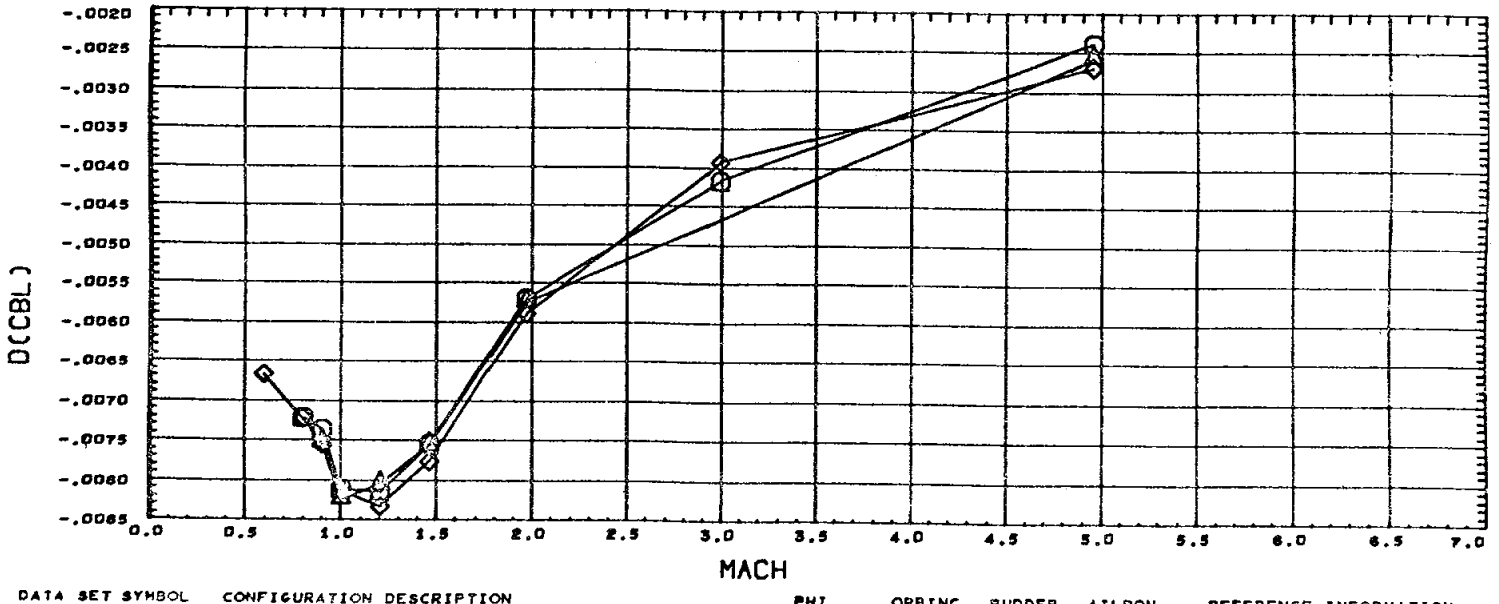


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)	80.000	0.000	0.000	0.000
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - OFF)



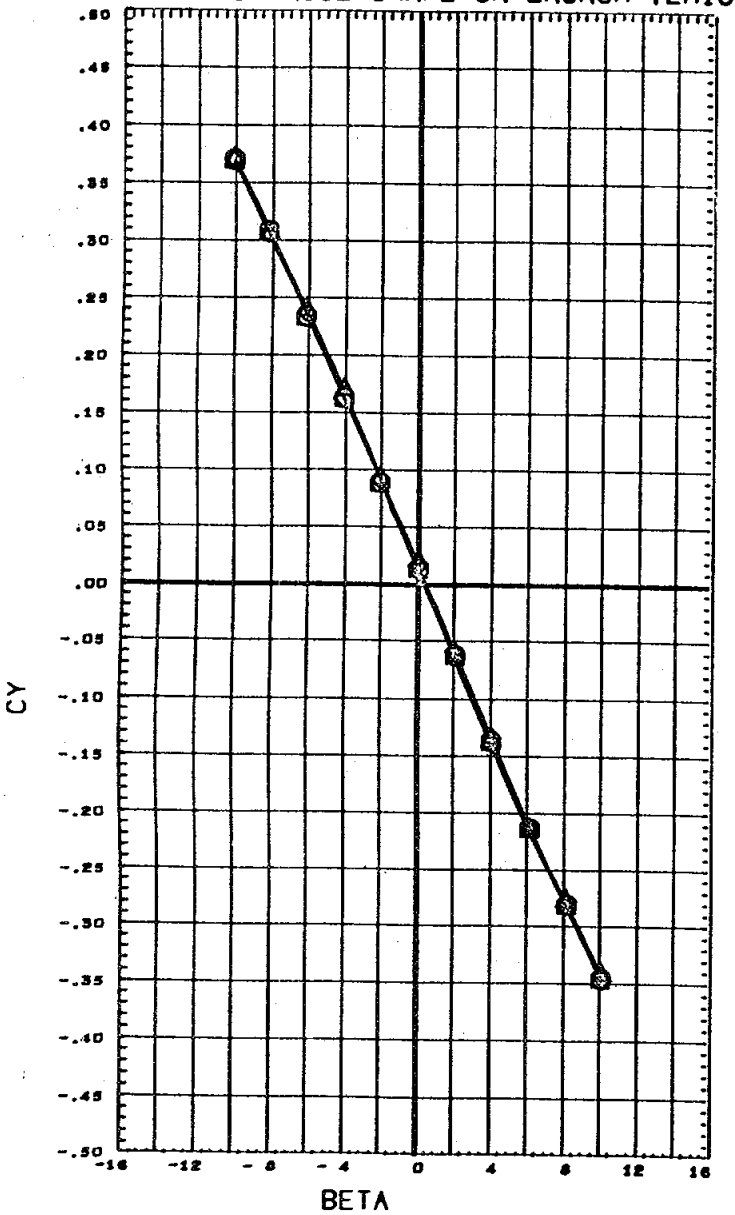


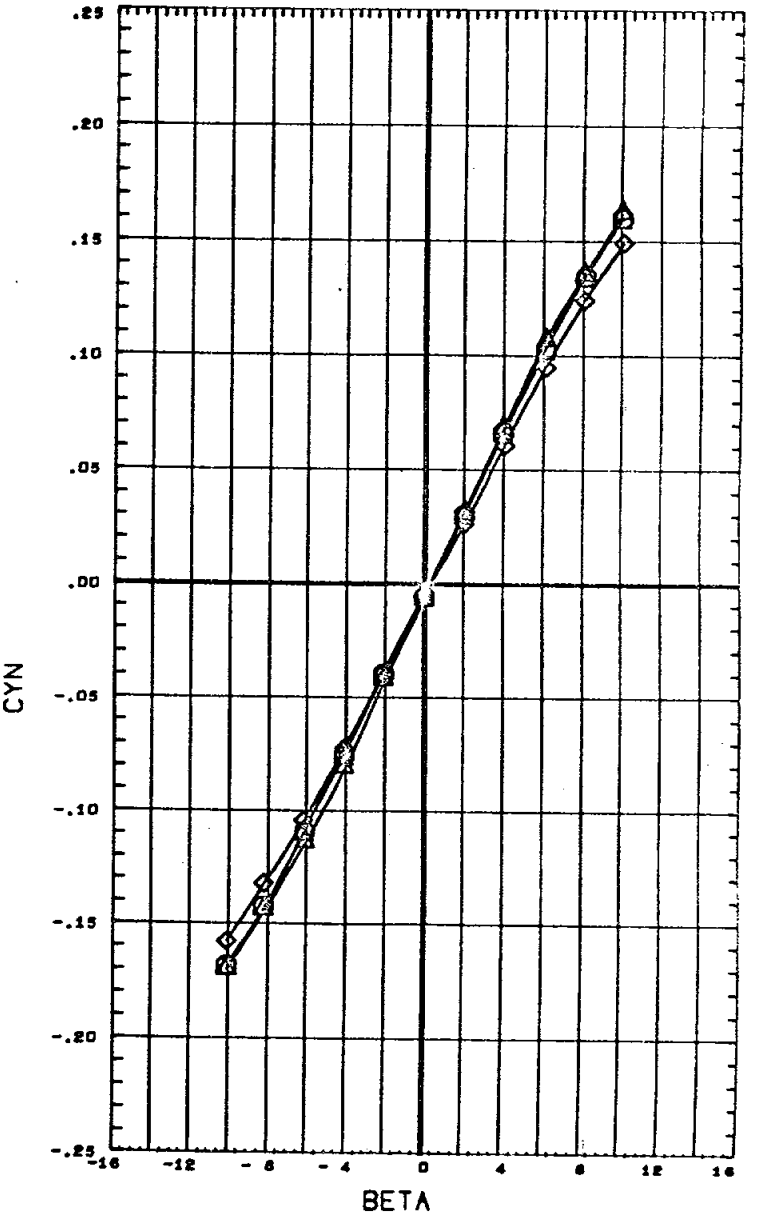
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77015)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77011)	△	M556(IA1) NAR ATP BL LV (O1)(T2)(S1)
(C77007)	◇	M556(IA1) NAR ATP BL LV (O1)(T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





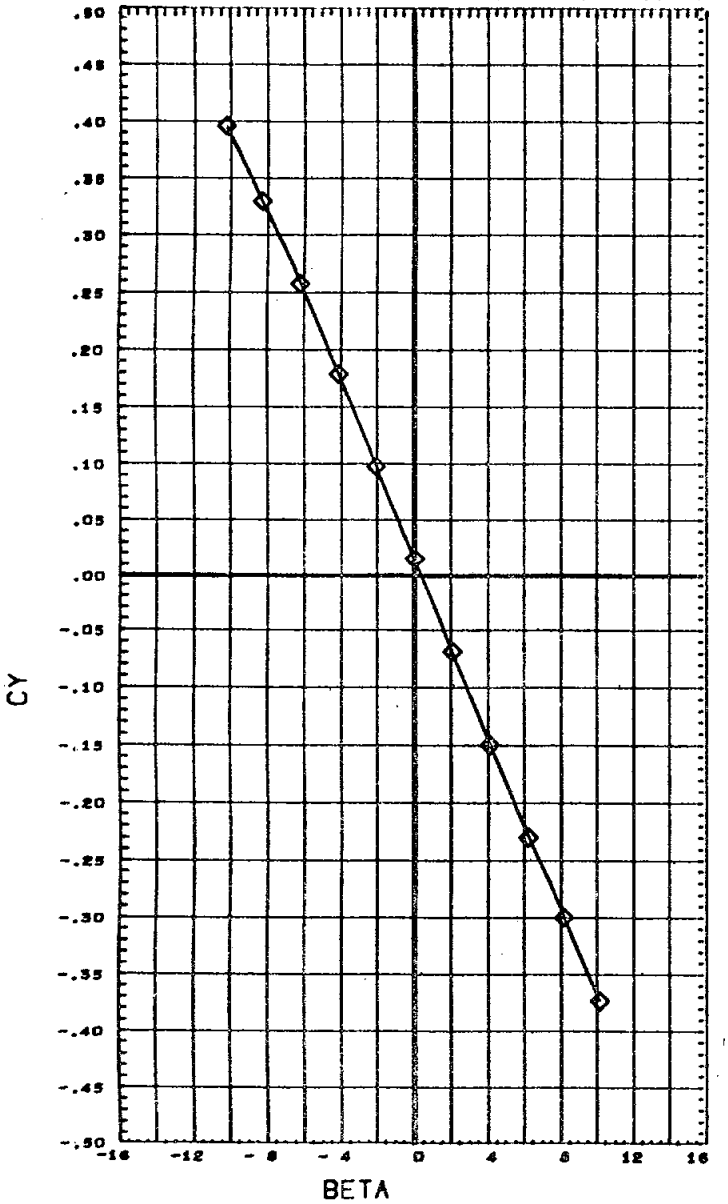
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

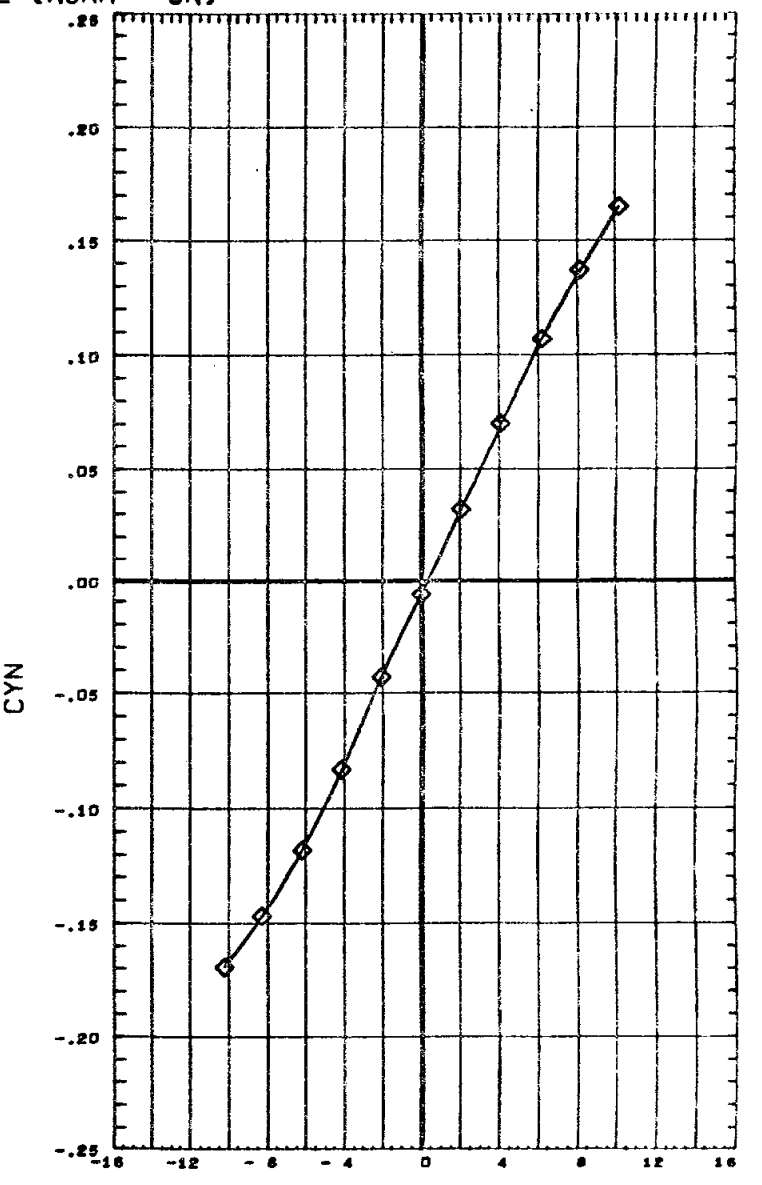
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





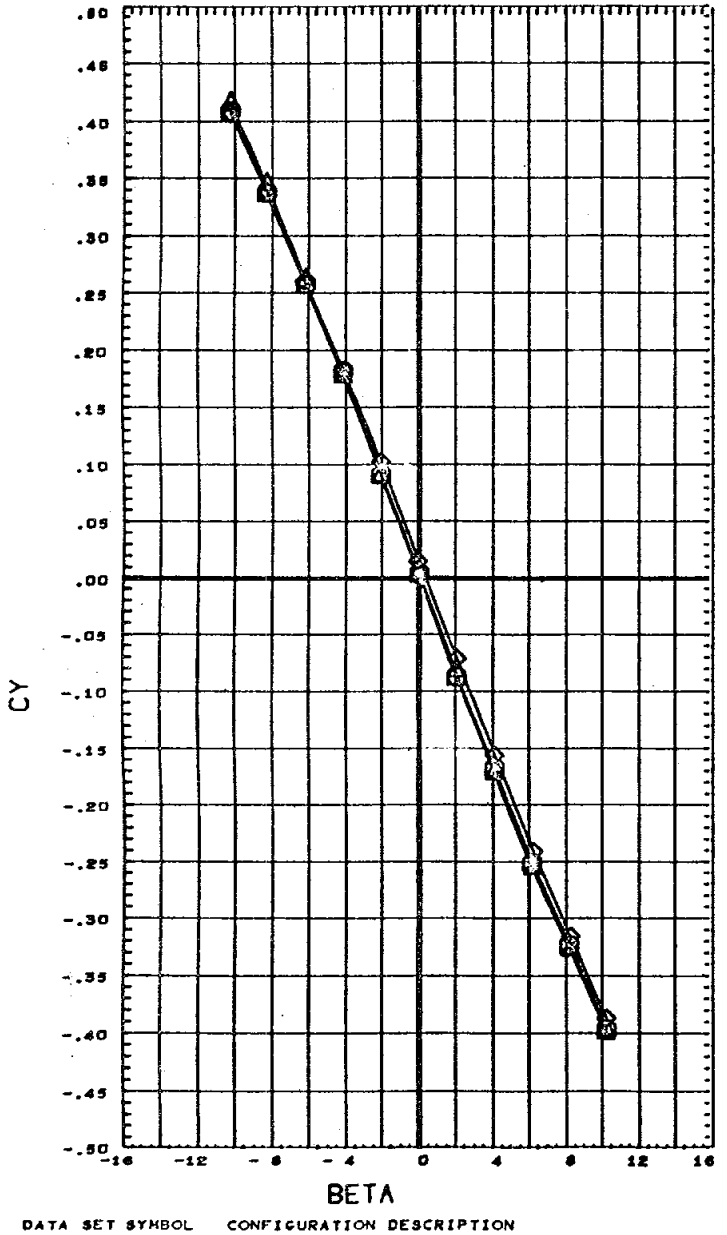
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

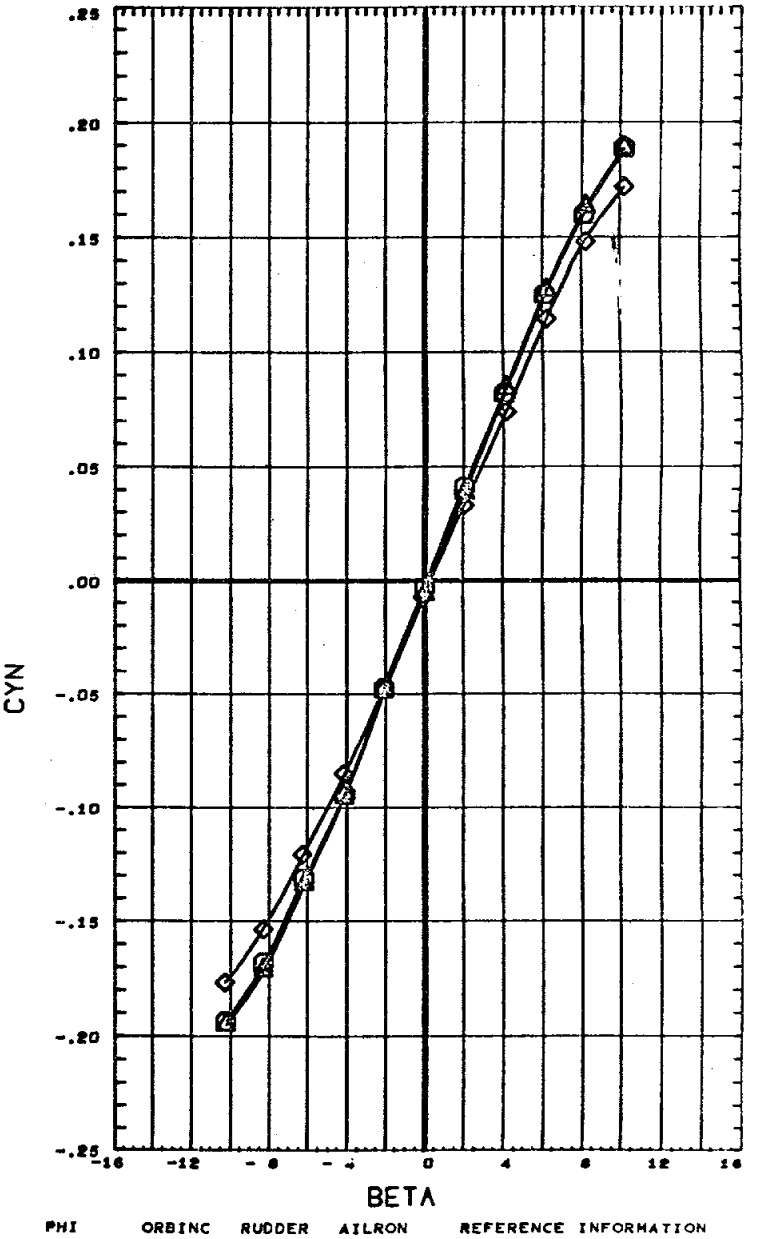
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





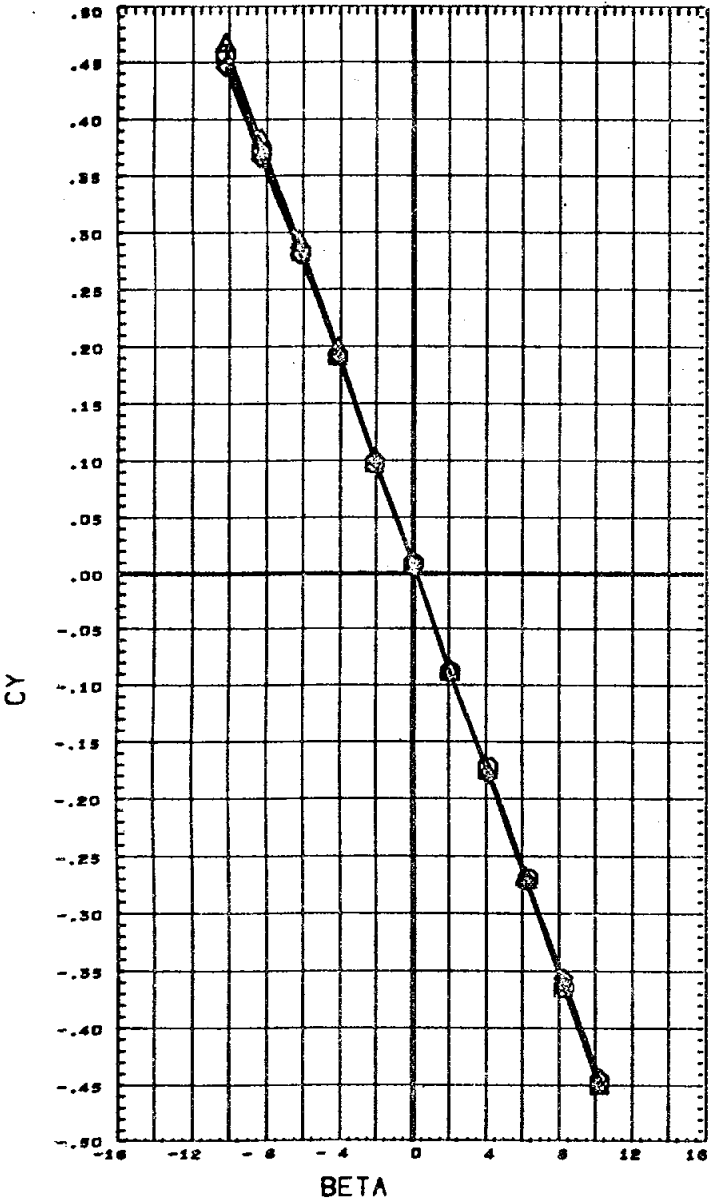
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

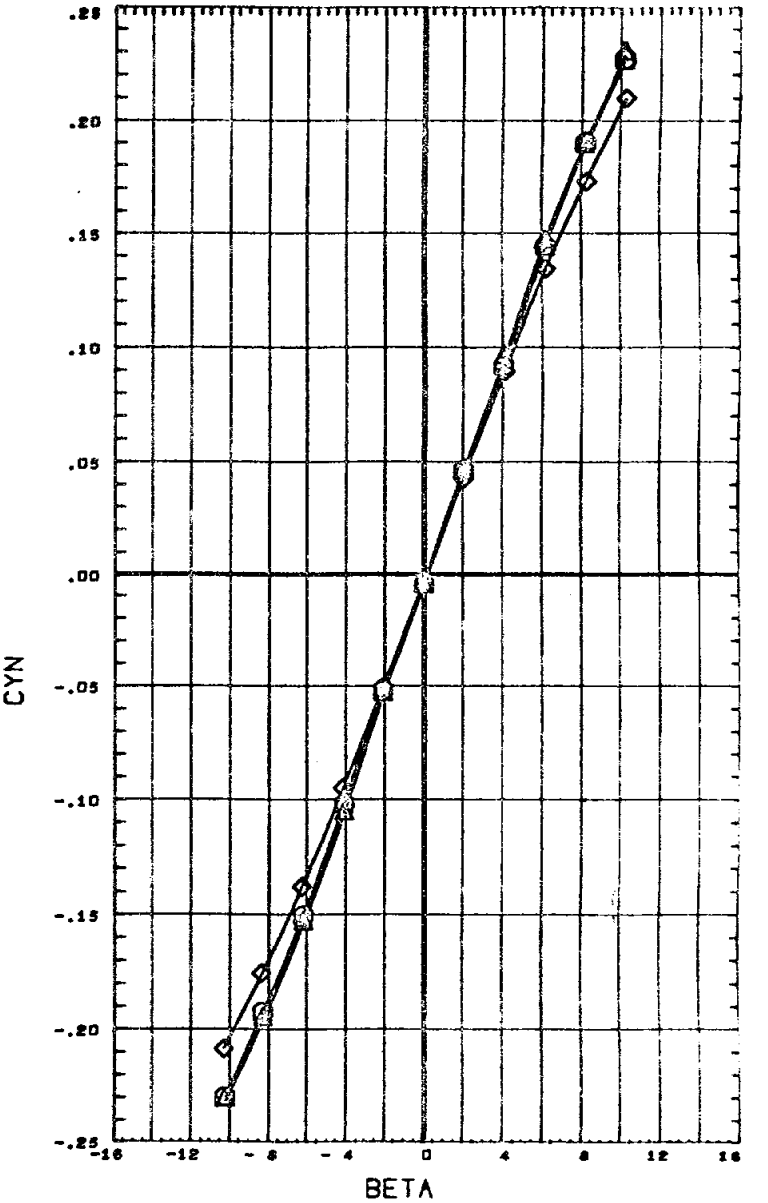
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





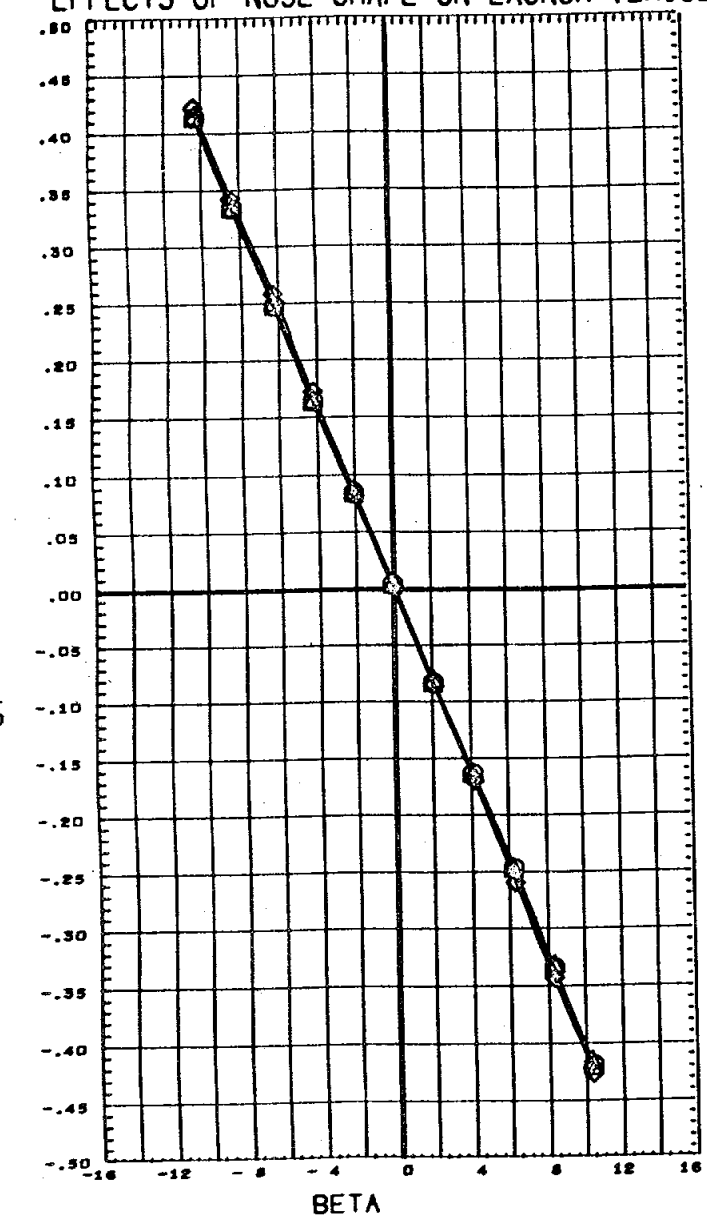
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

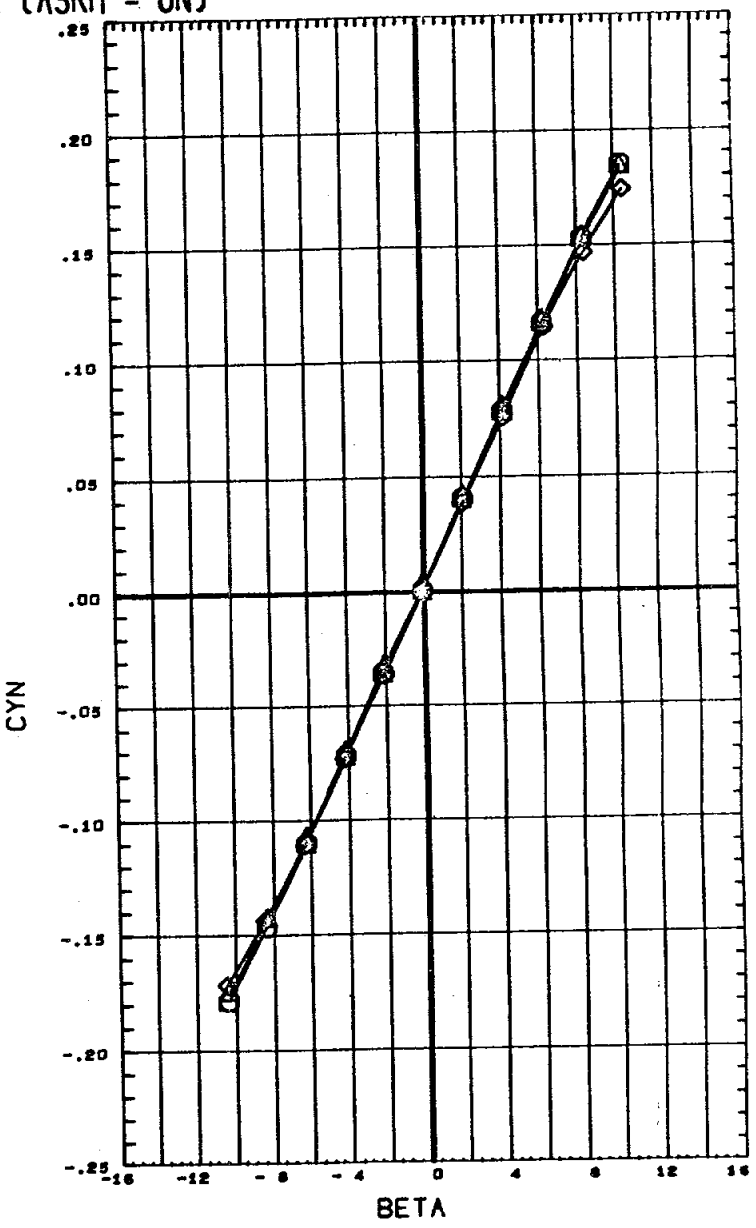
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





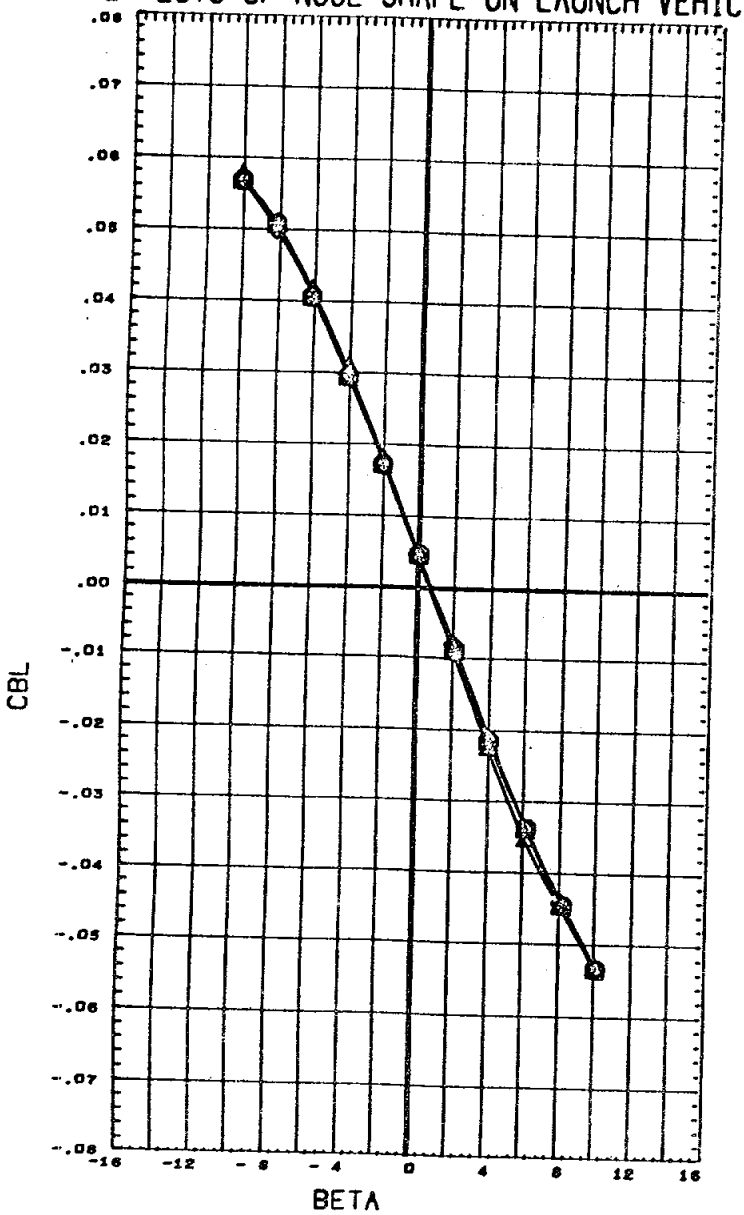
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77013)	☒	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

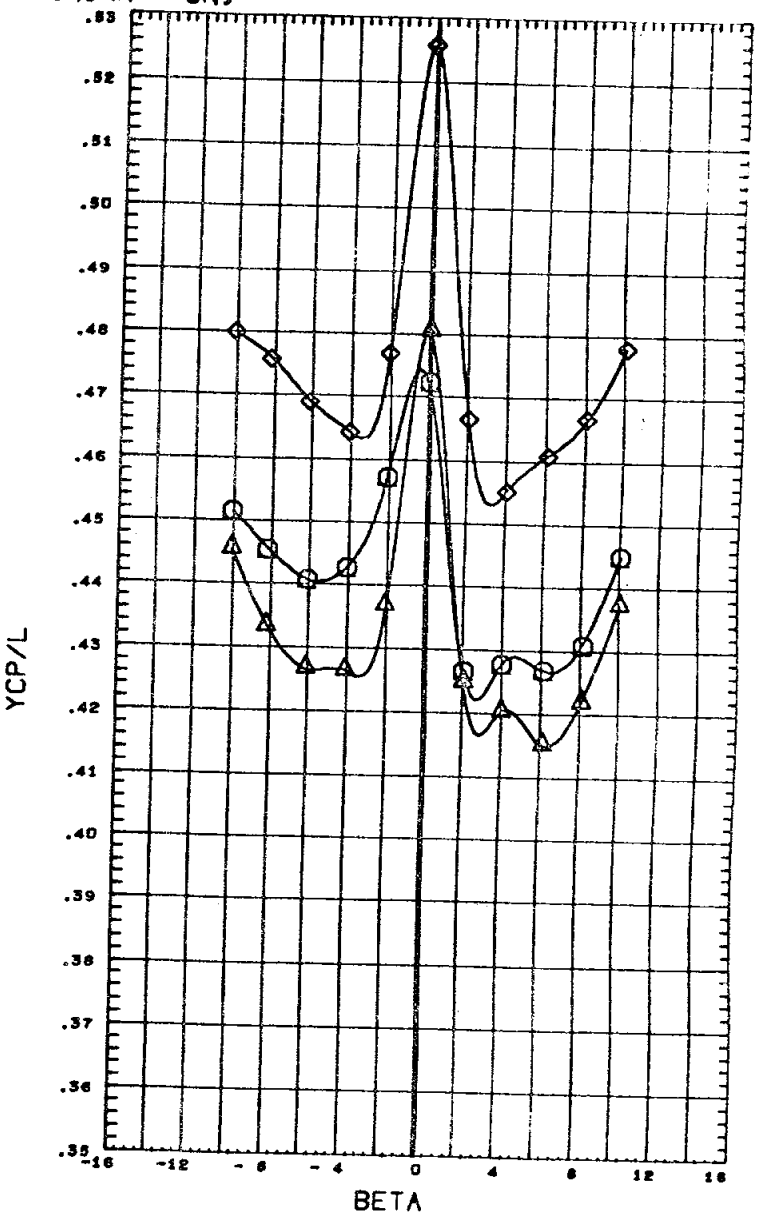
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





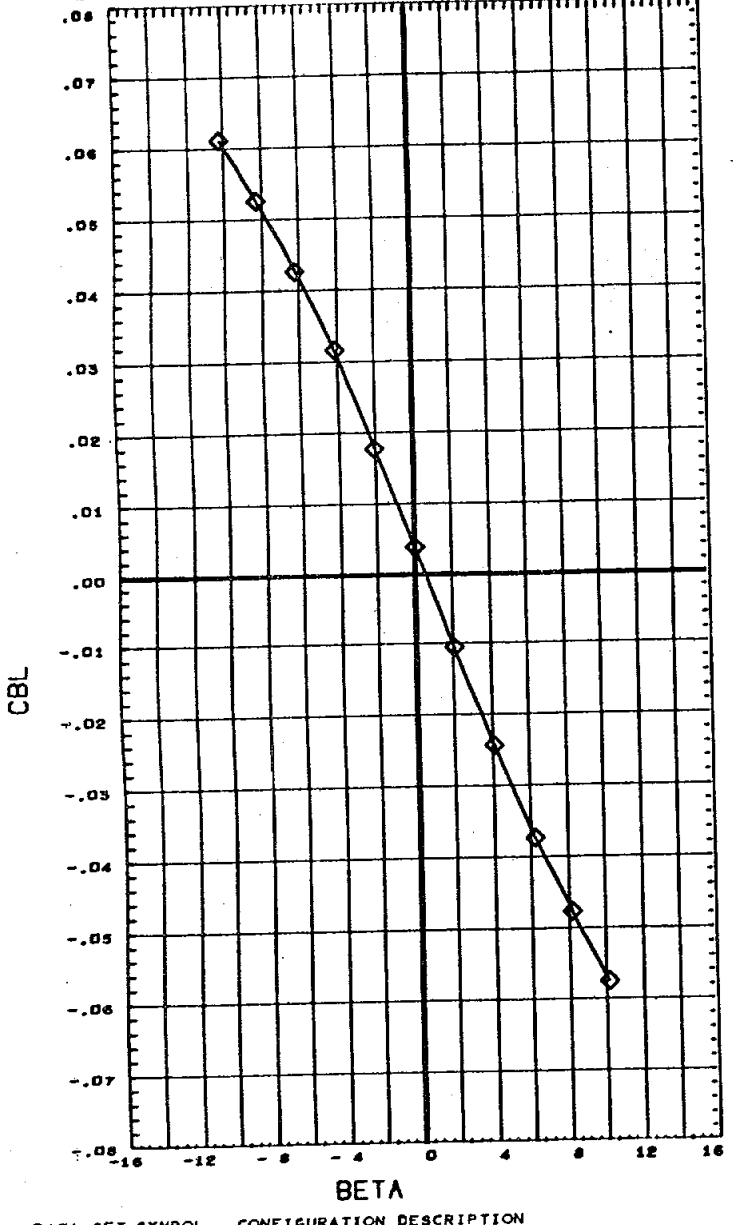
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

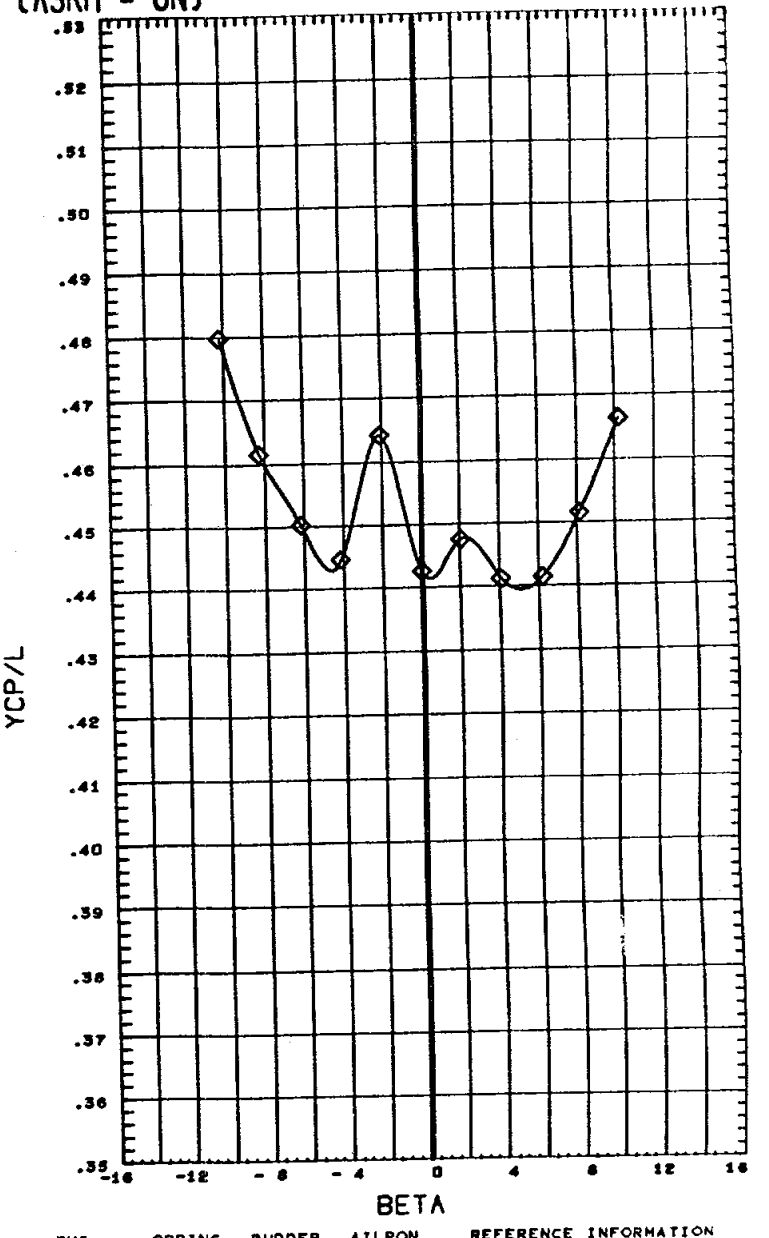
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





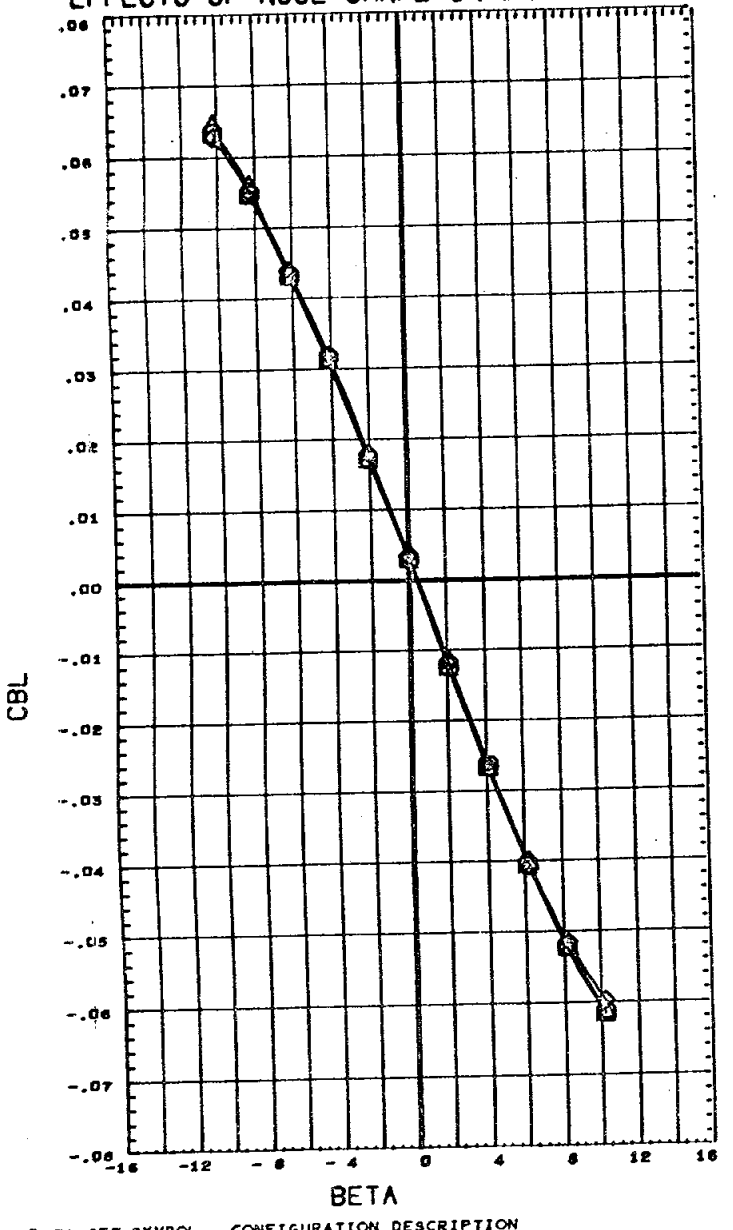
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77009)	◇	M556(IA1) NAR ATP BL LV (02)(T3)(S1)

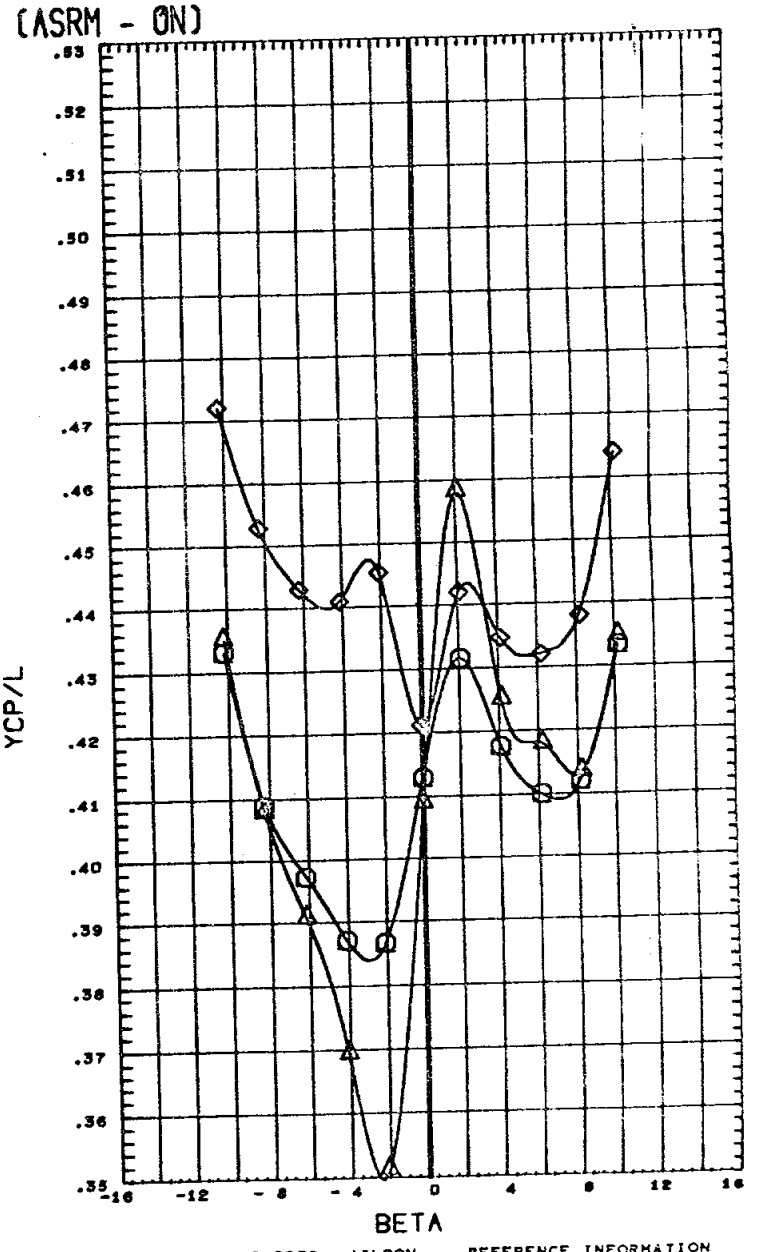
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2)(T2)(S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2)(T3)(S1)

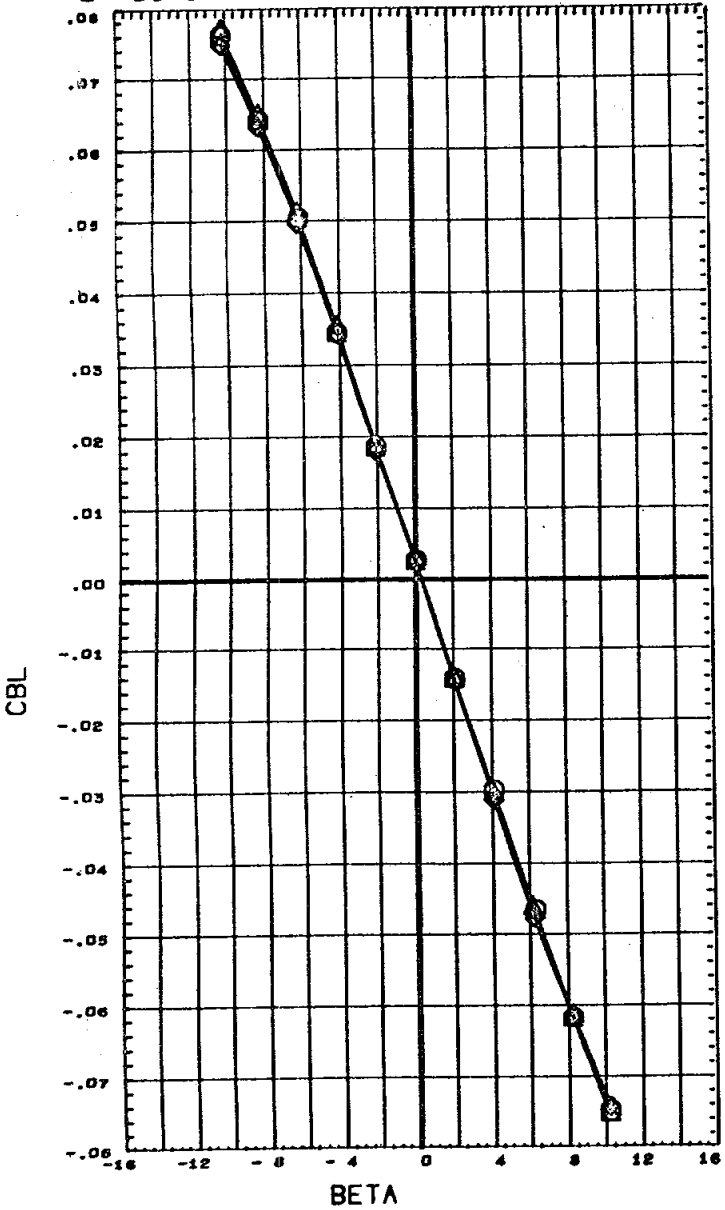
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

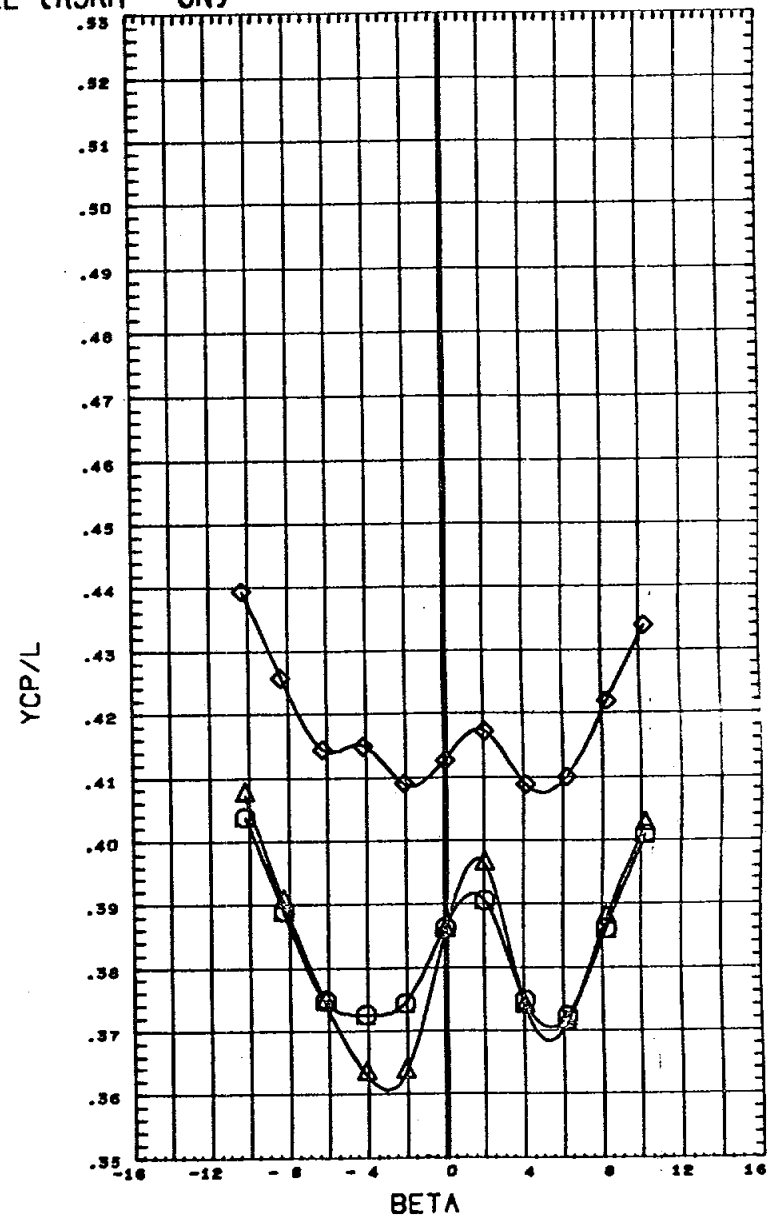
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





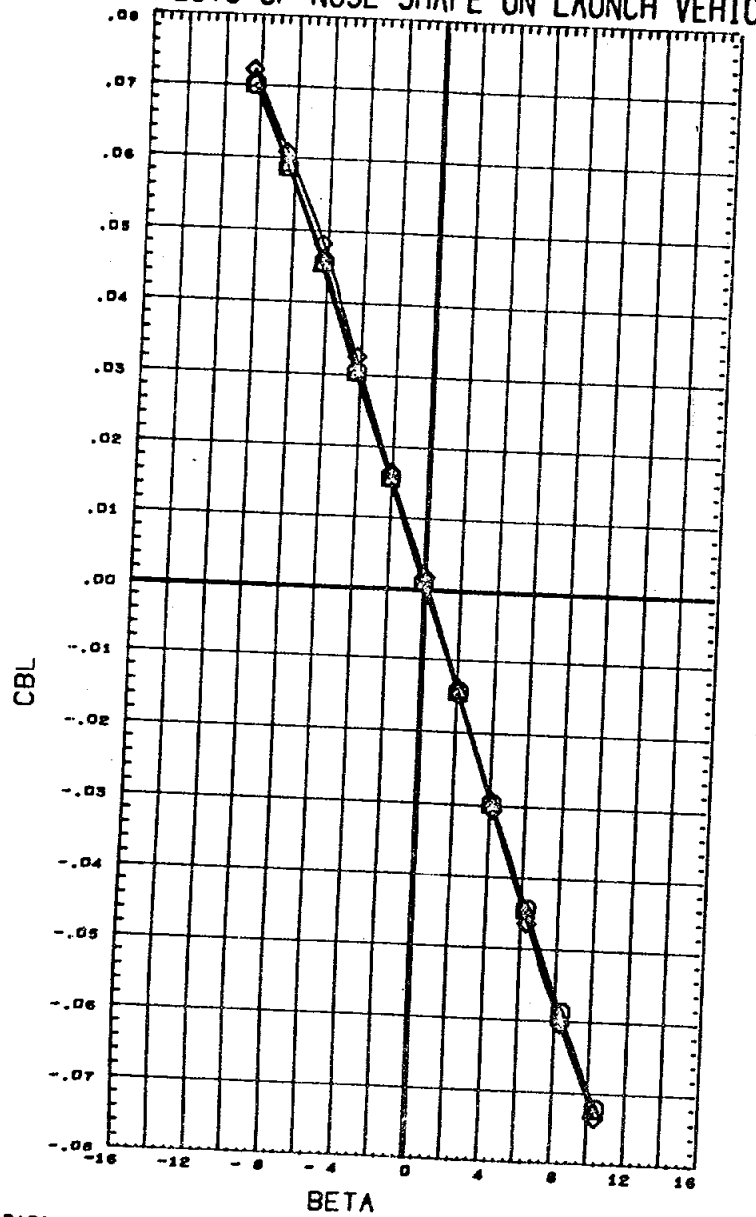
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

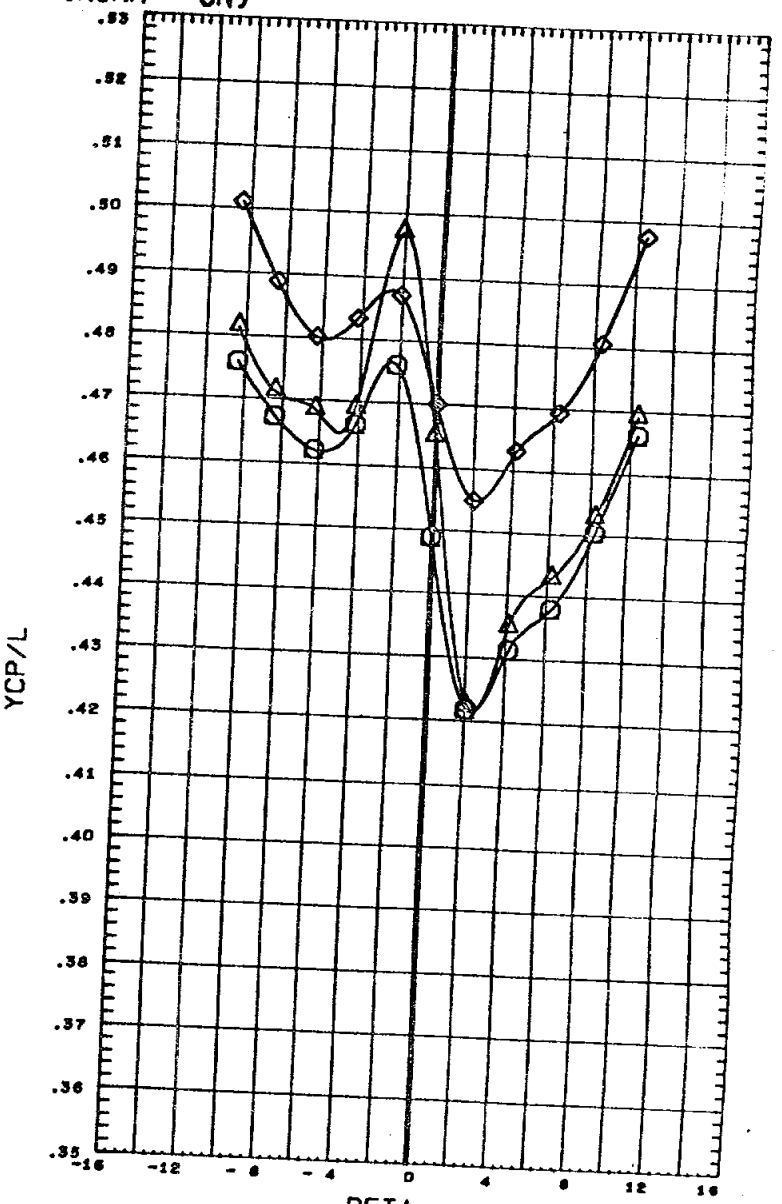
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

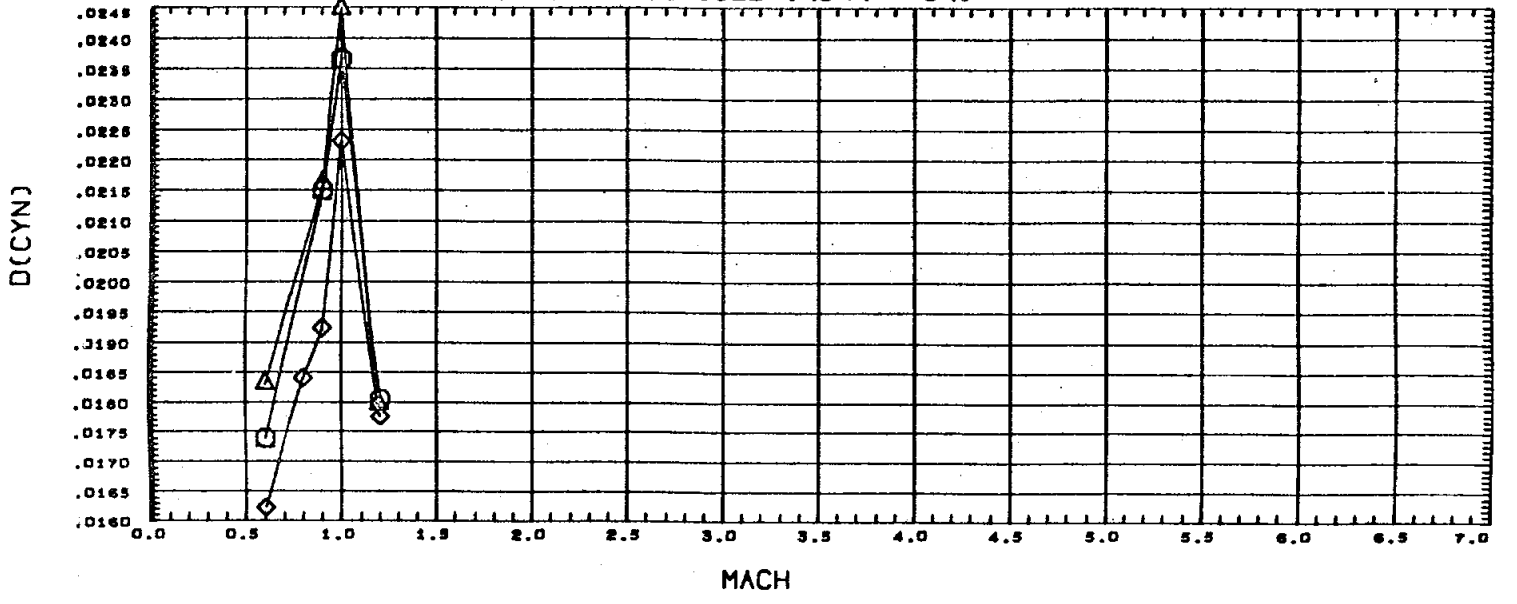
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000

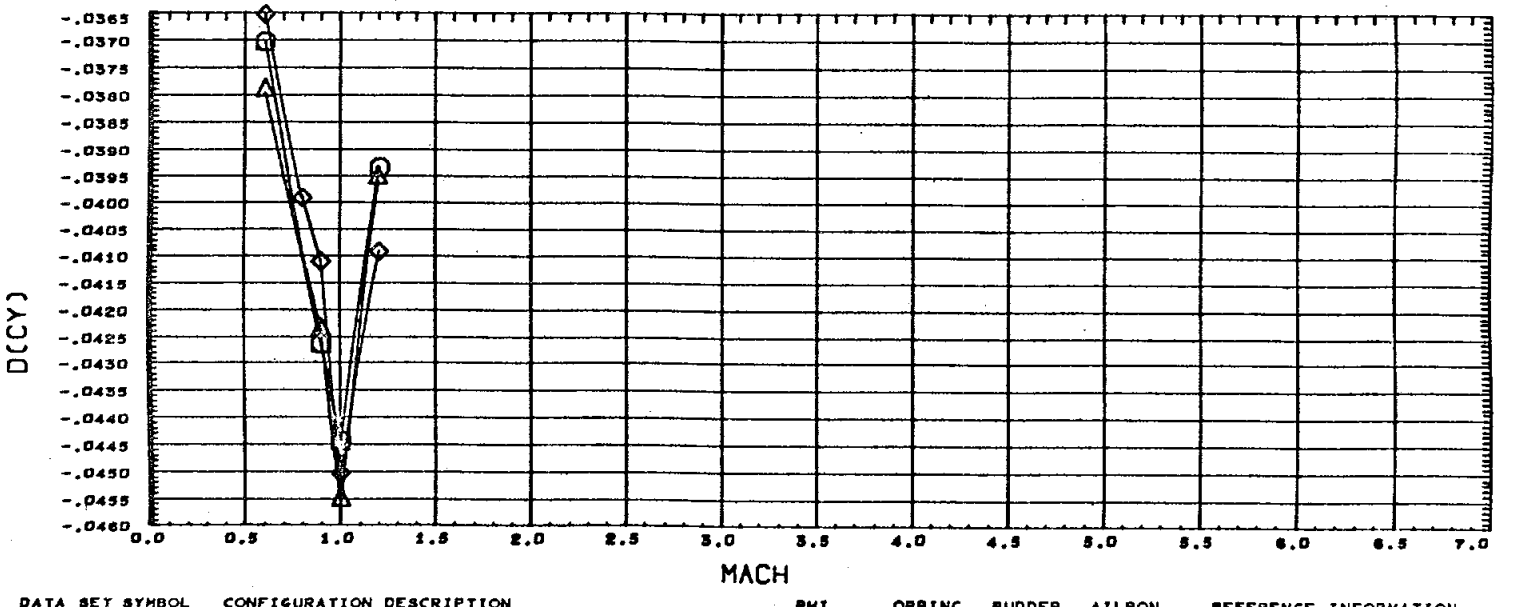
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)



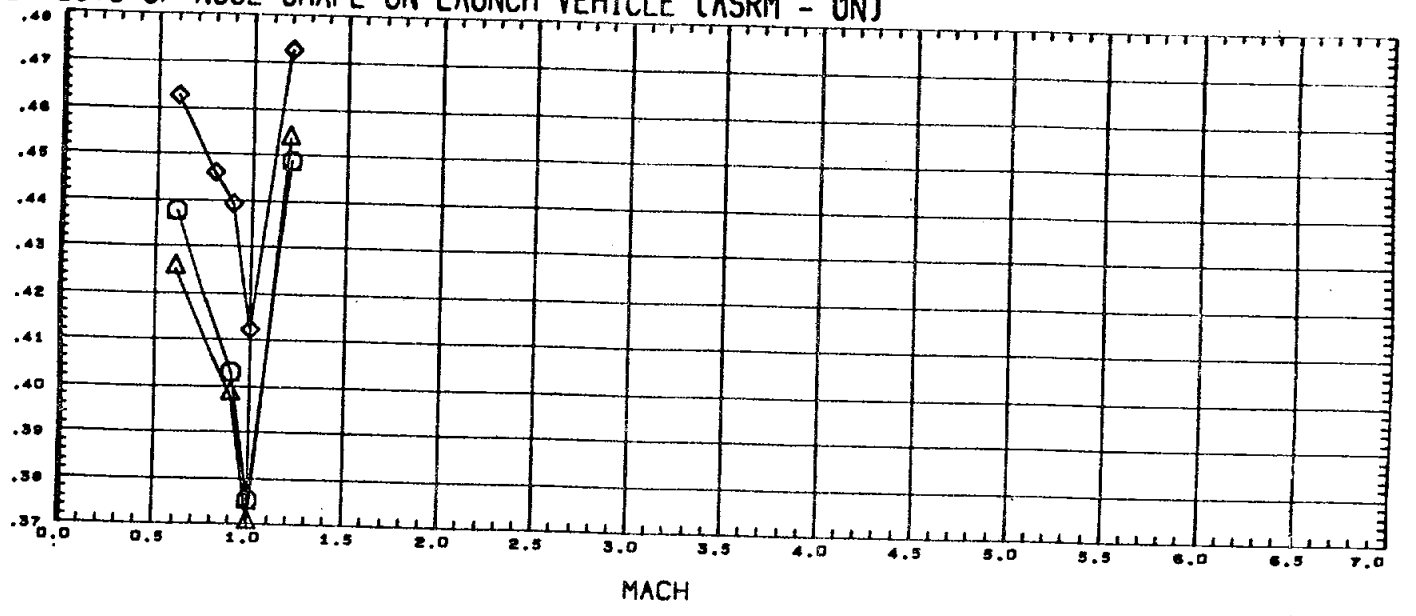


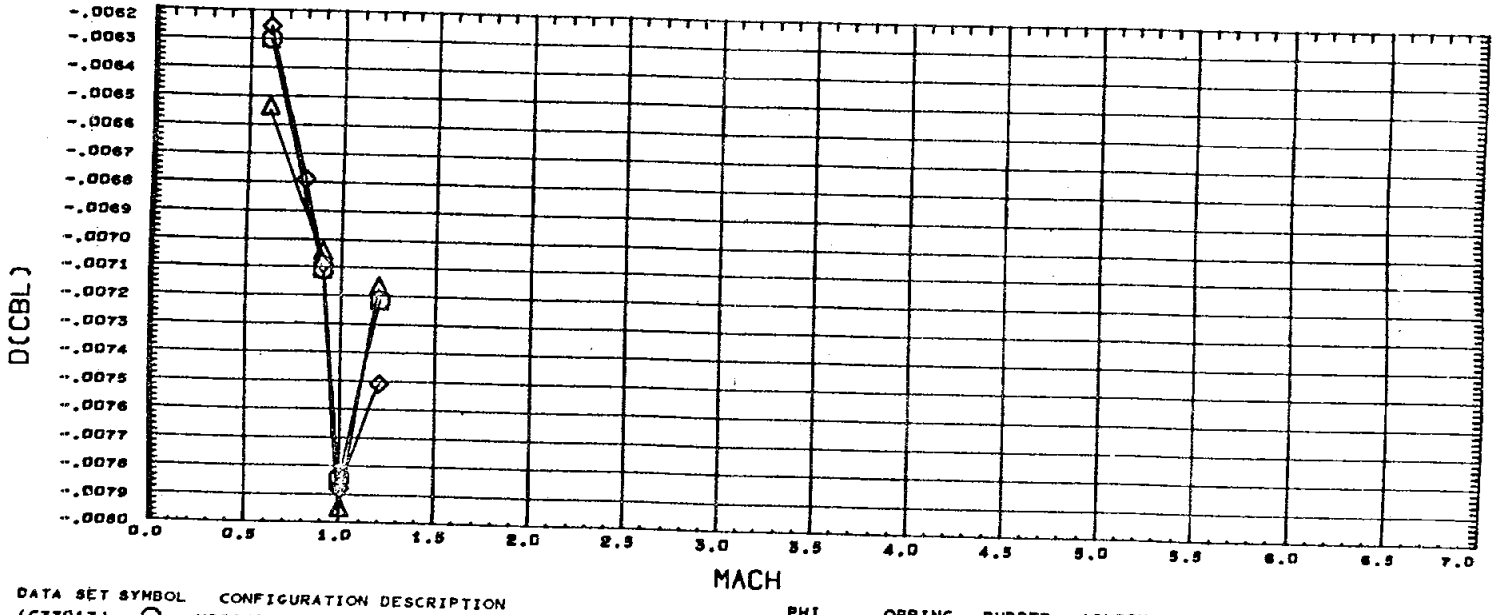
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(C77017)	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77013)	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(C77009)	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECTS OF NOSE SHAPE ON LAUNCH VEHICLE (ASRM - ON)





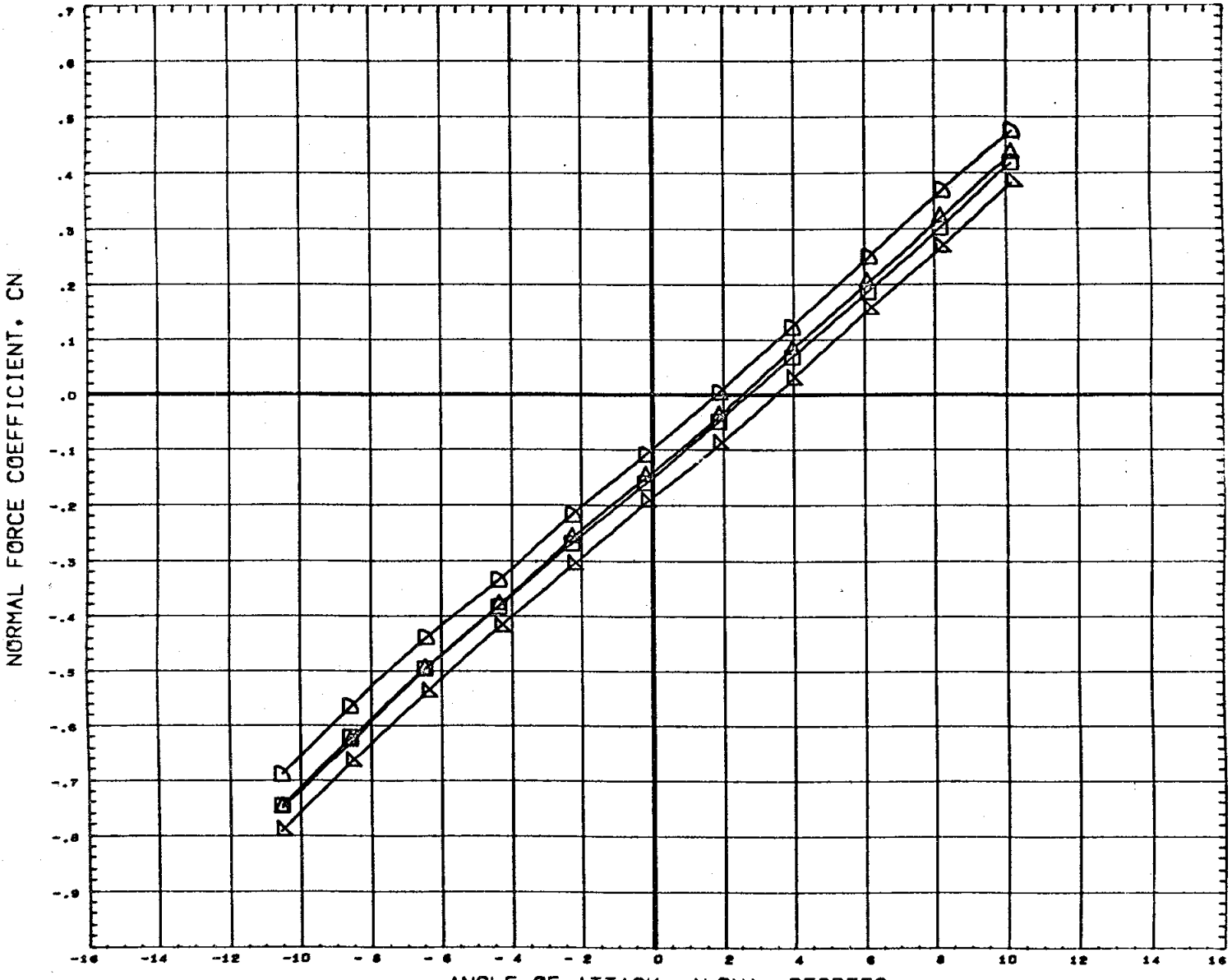
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77017)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77013)	△	M556(IA1) NAR ATP BL LV (O2) (T2) (S1)
(C77009)	◇	M556(IA1) NAR ATP BL LV (O2) (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY

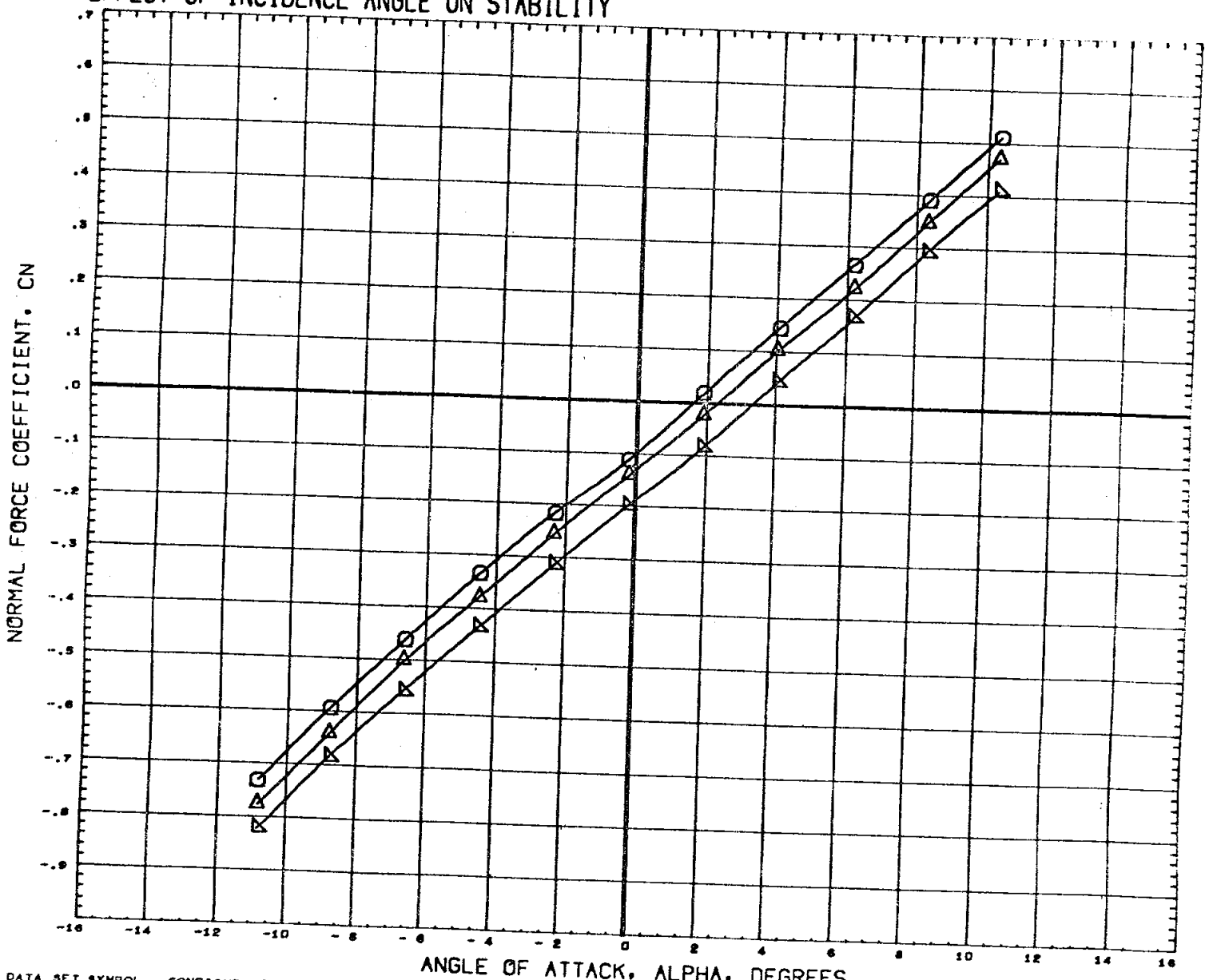


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY



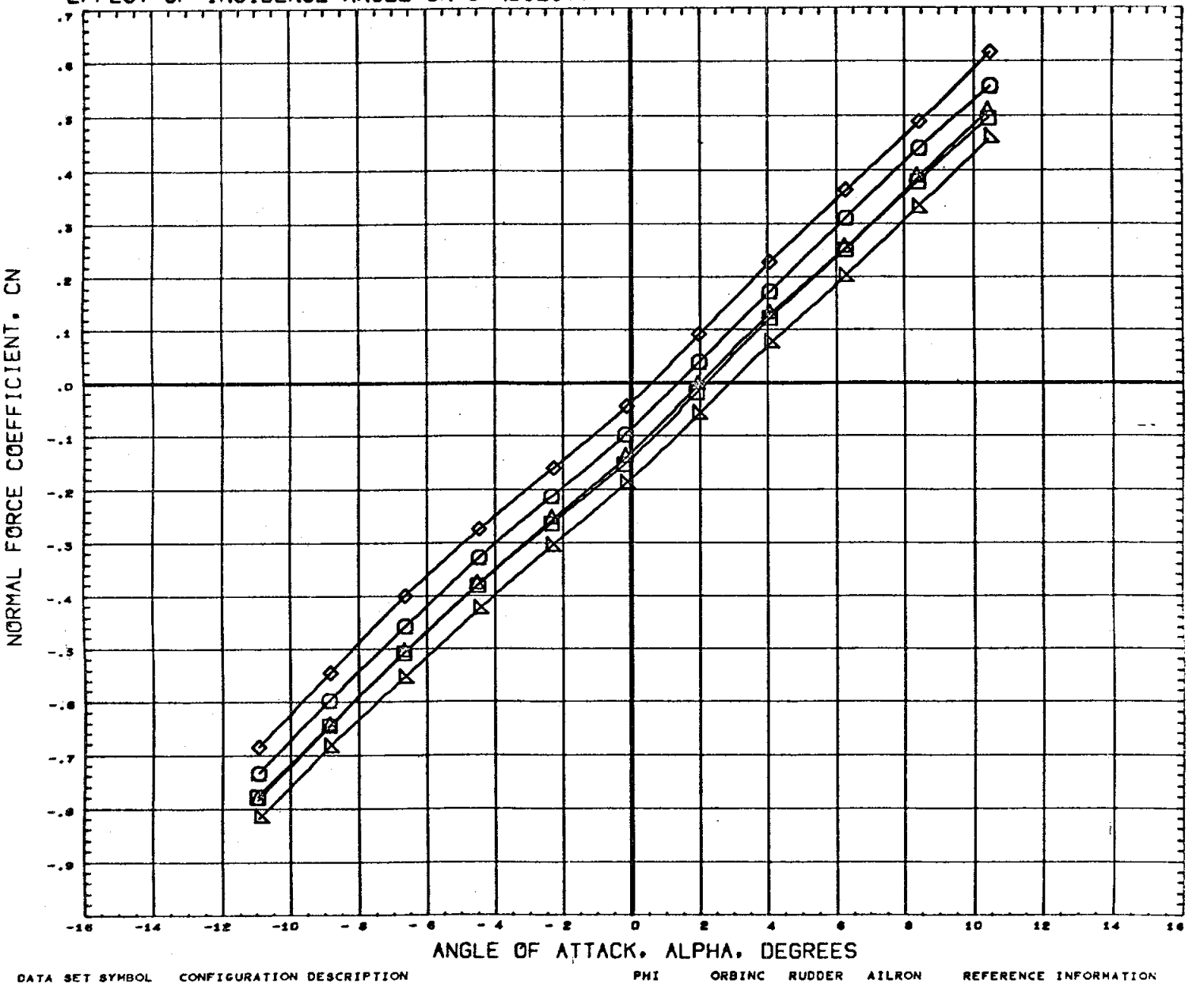
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY

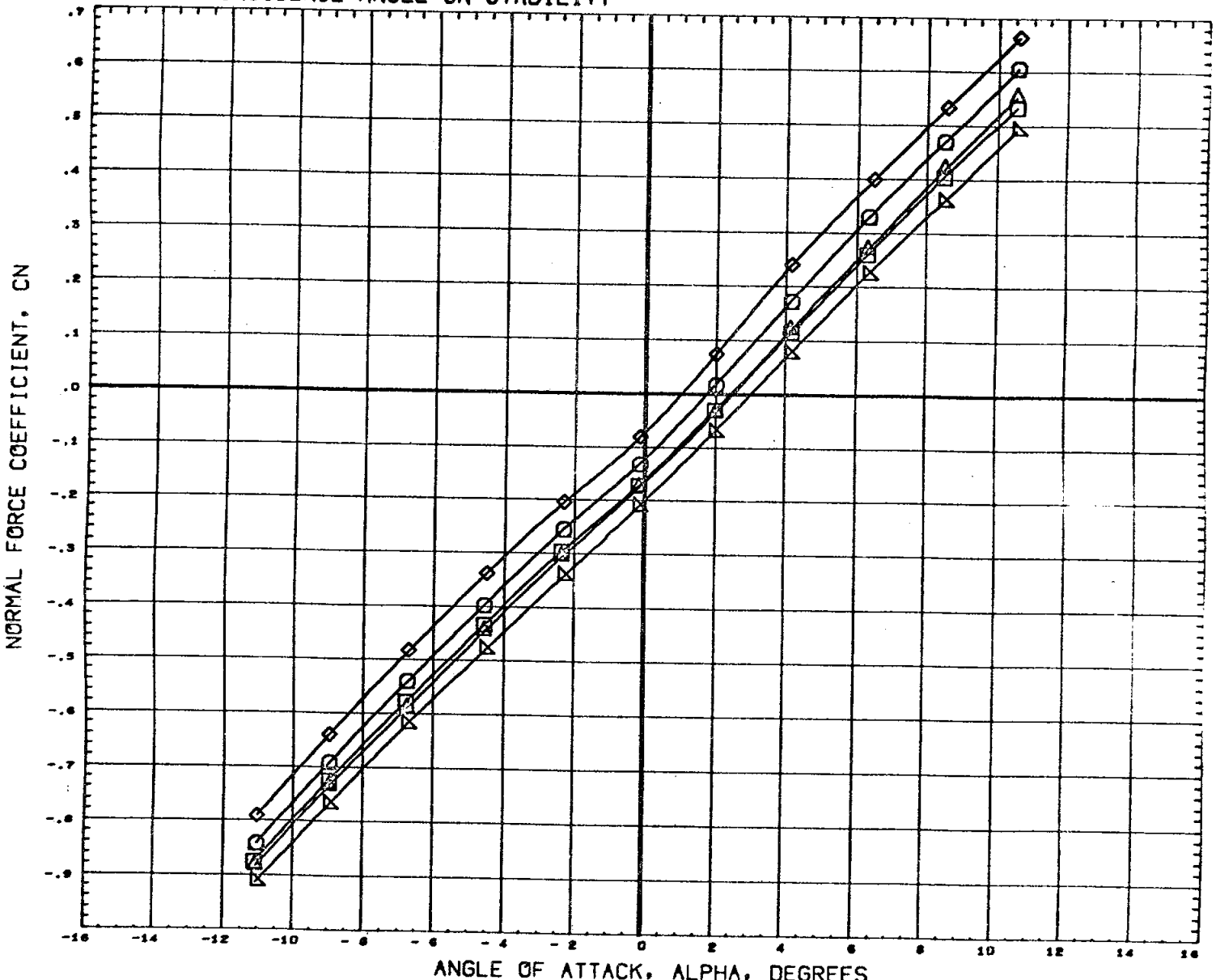


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(G77016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY



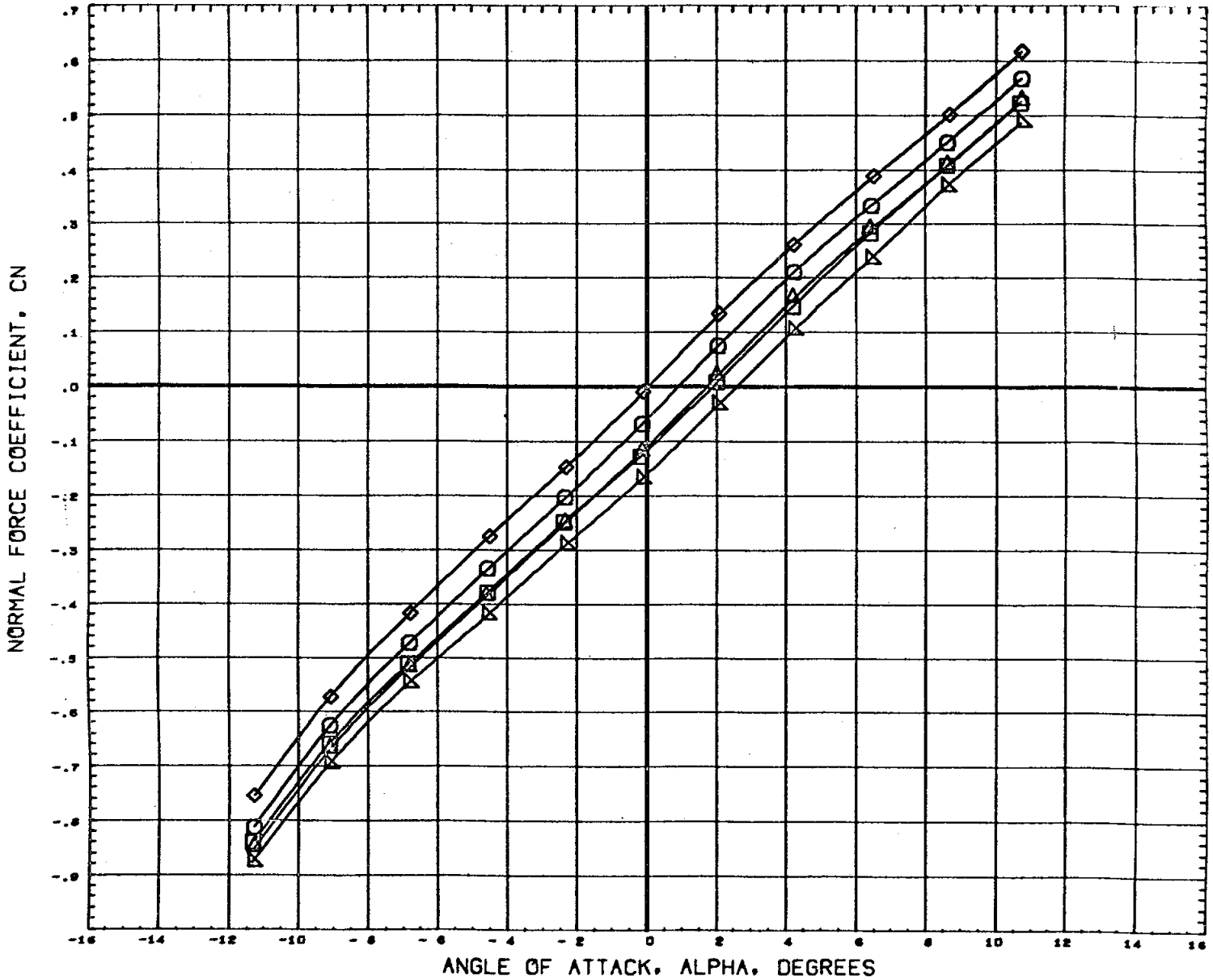
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77016)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77020)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77022)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY

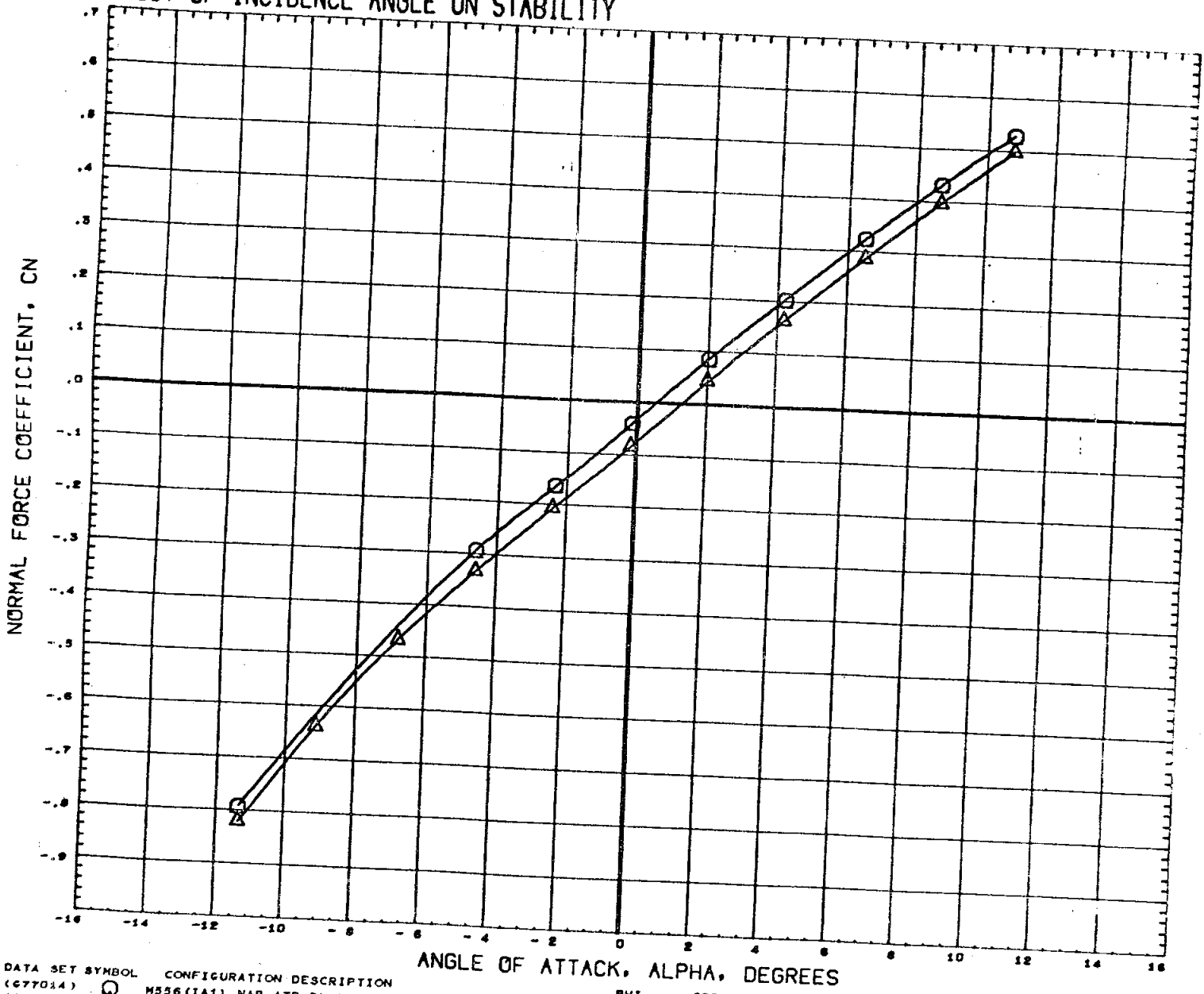


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(677018)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	1.500	0.000	0.000
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(677020)	▷	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



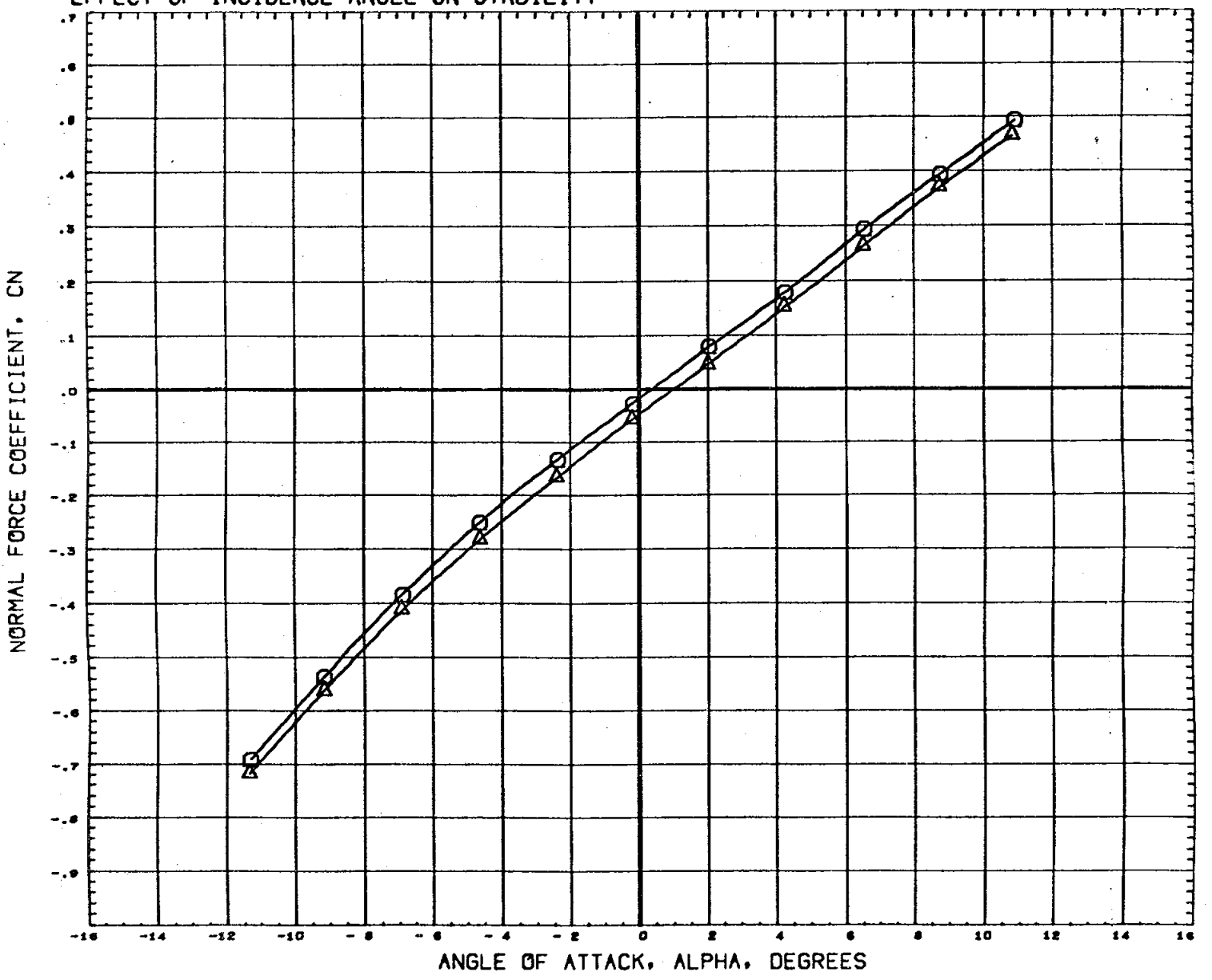
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY

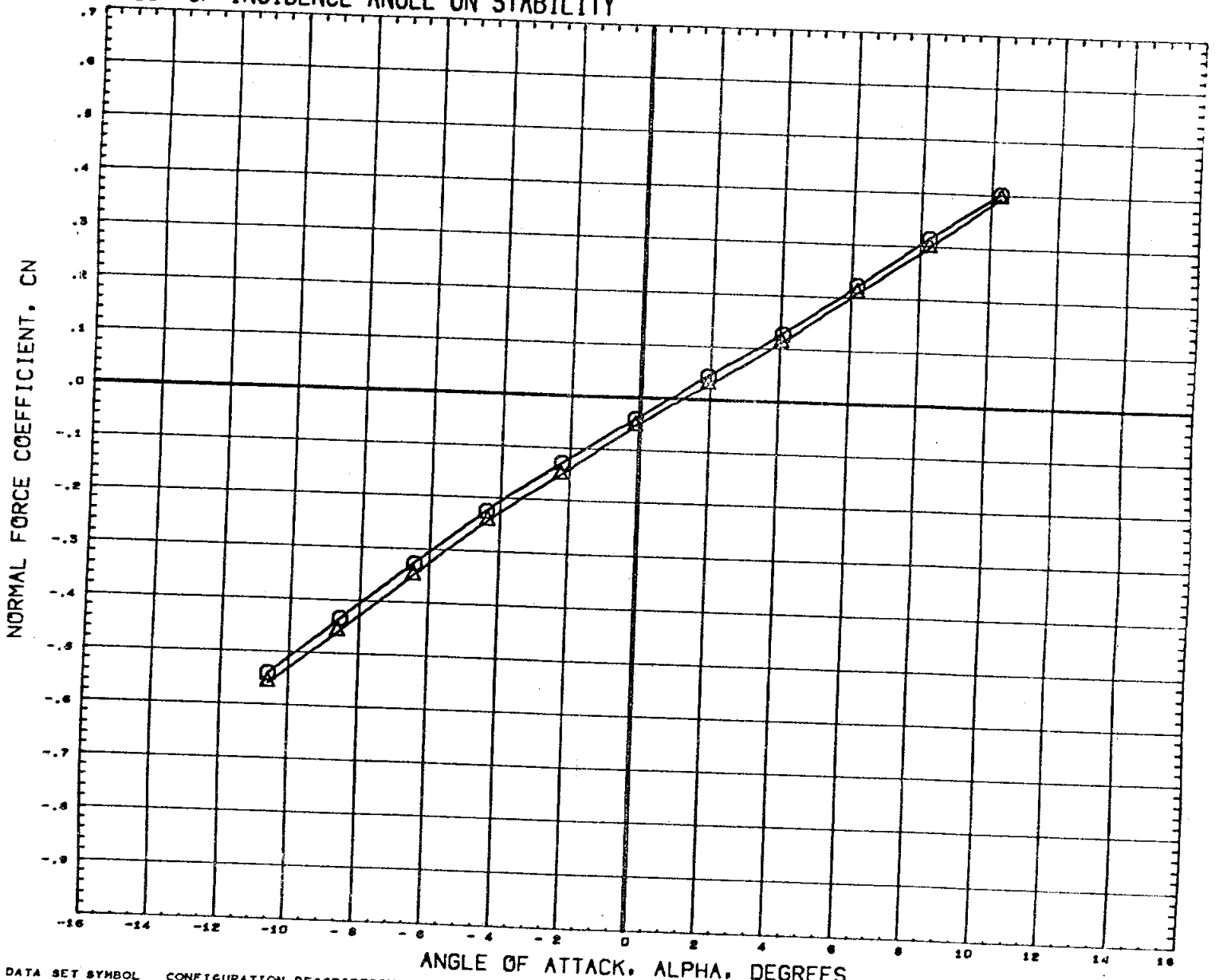


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(677016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(677020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(677022)	⊠	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF INCIDENCE ANGLE ON STABILITY



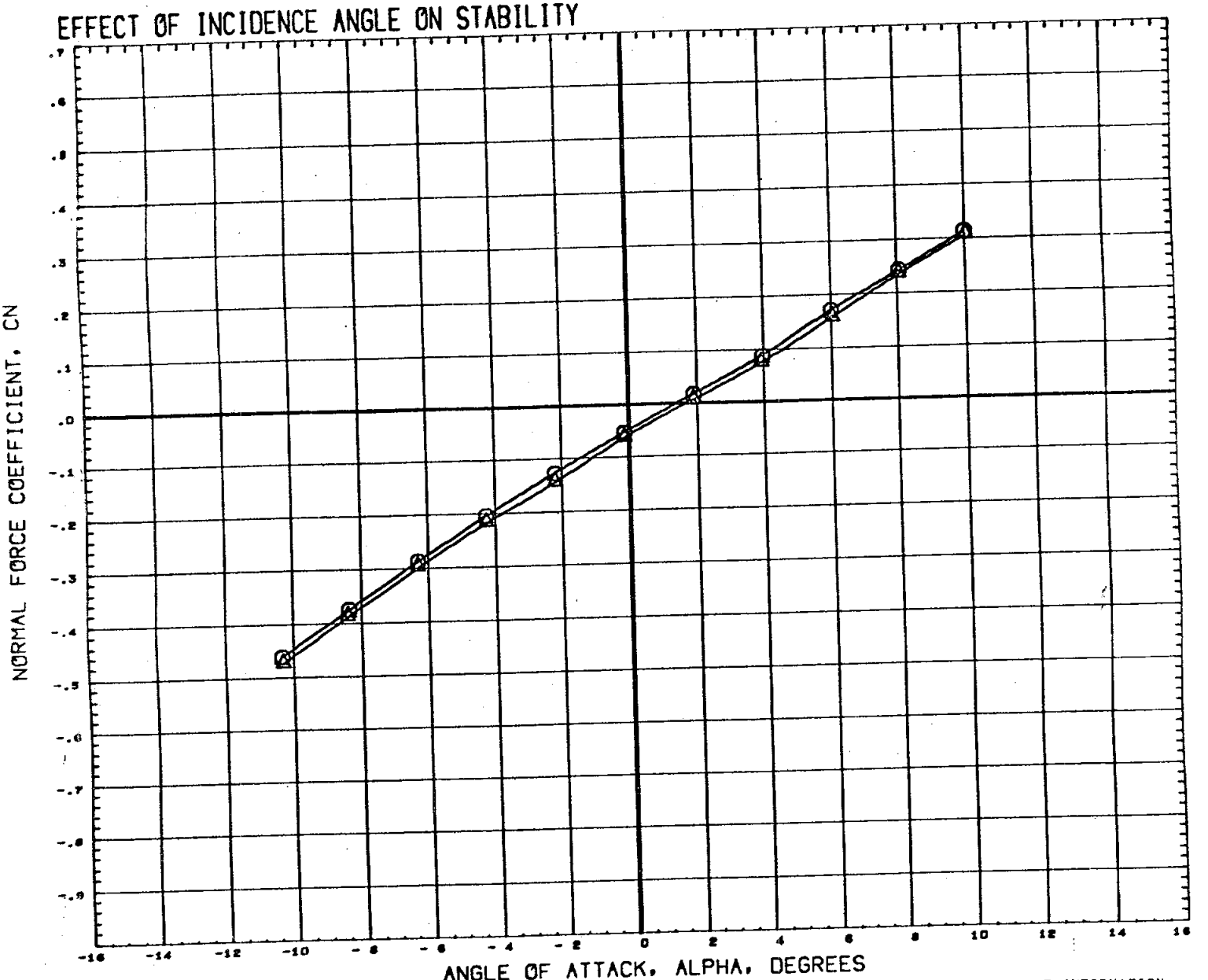
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	0.000
90.000	1.500	0.000	0.000
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	0.000
90.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

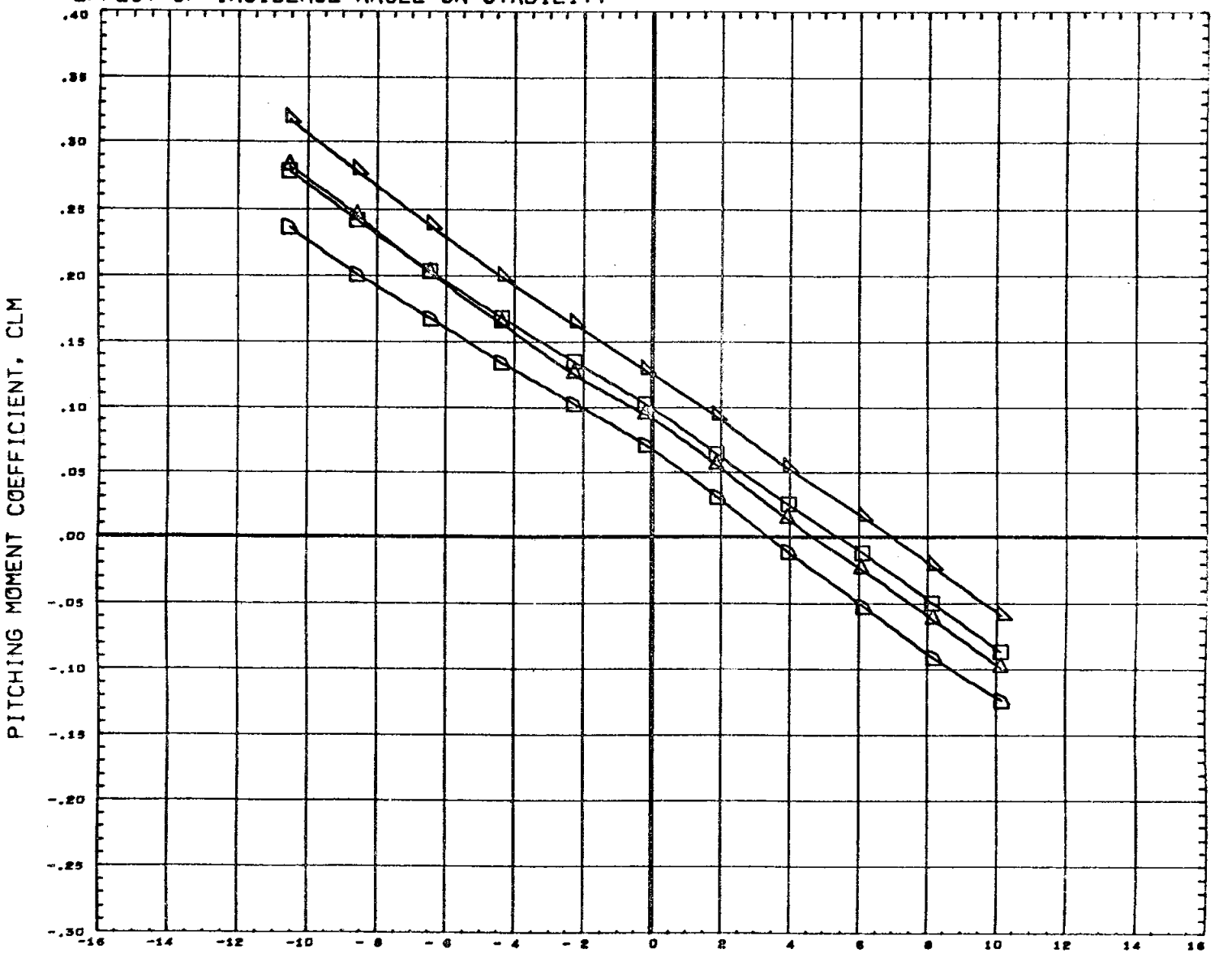
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

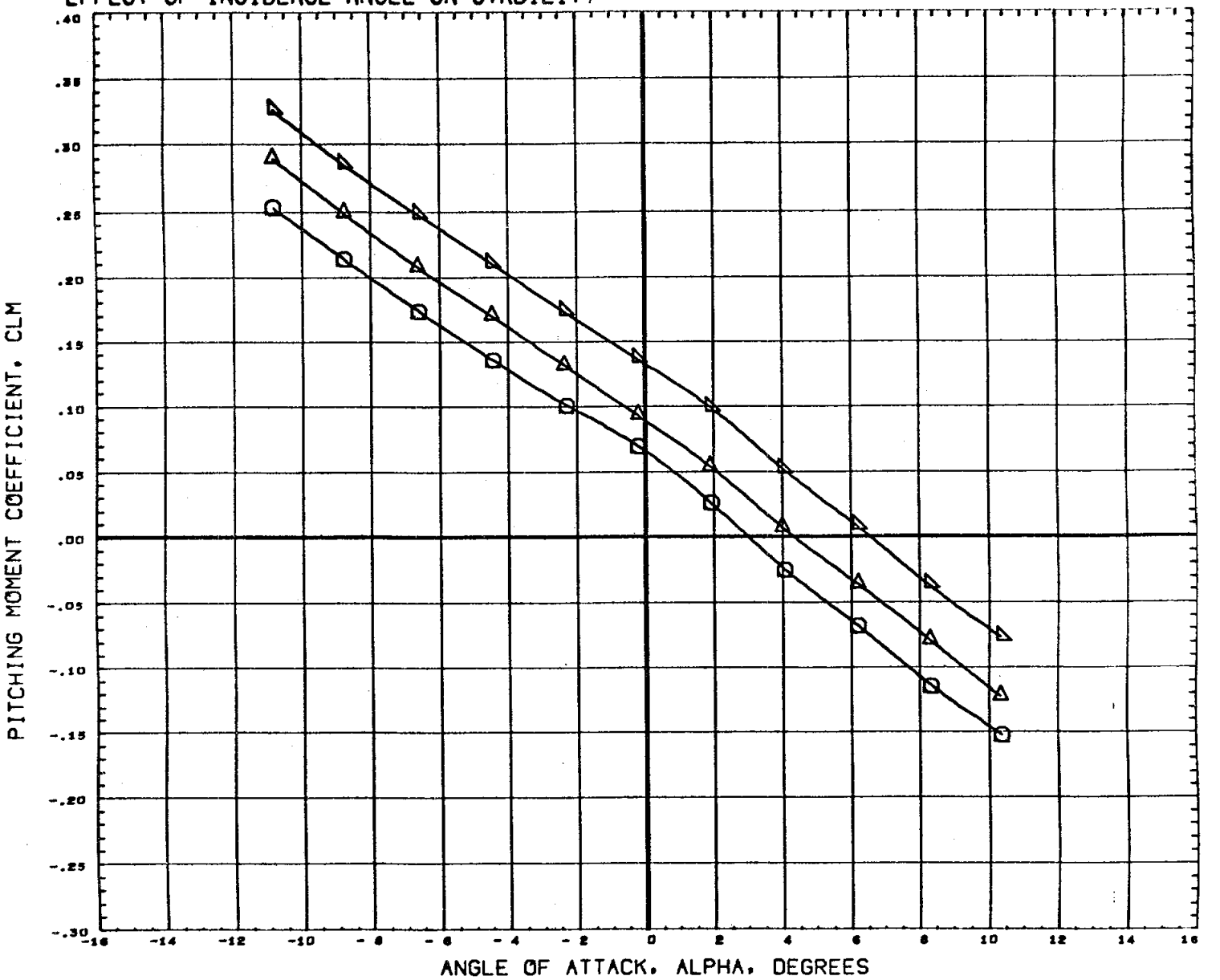


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY

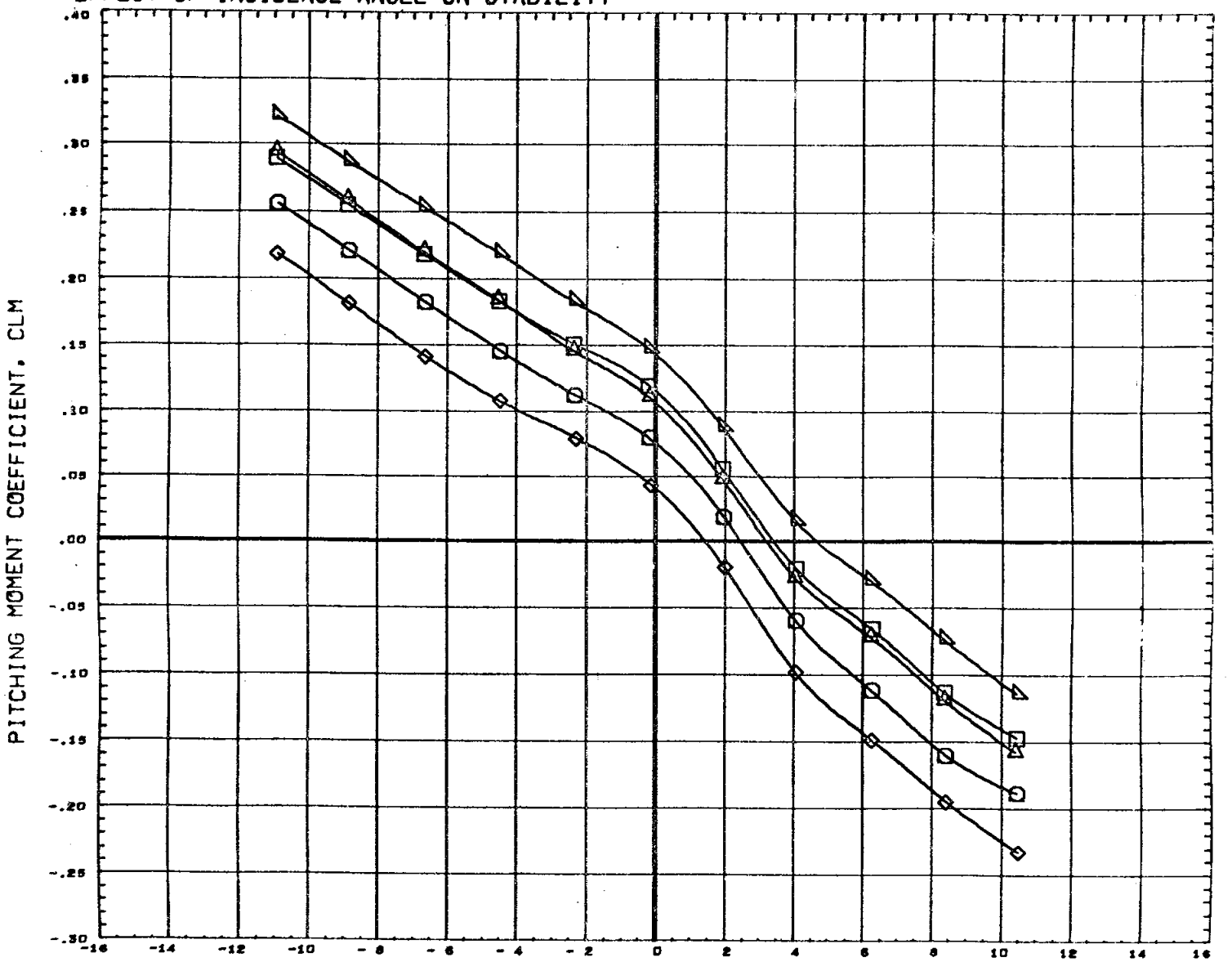


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY



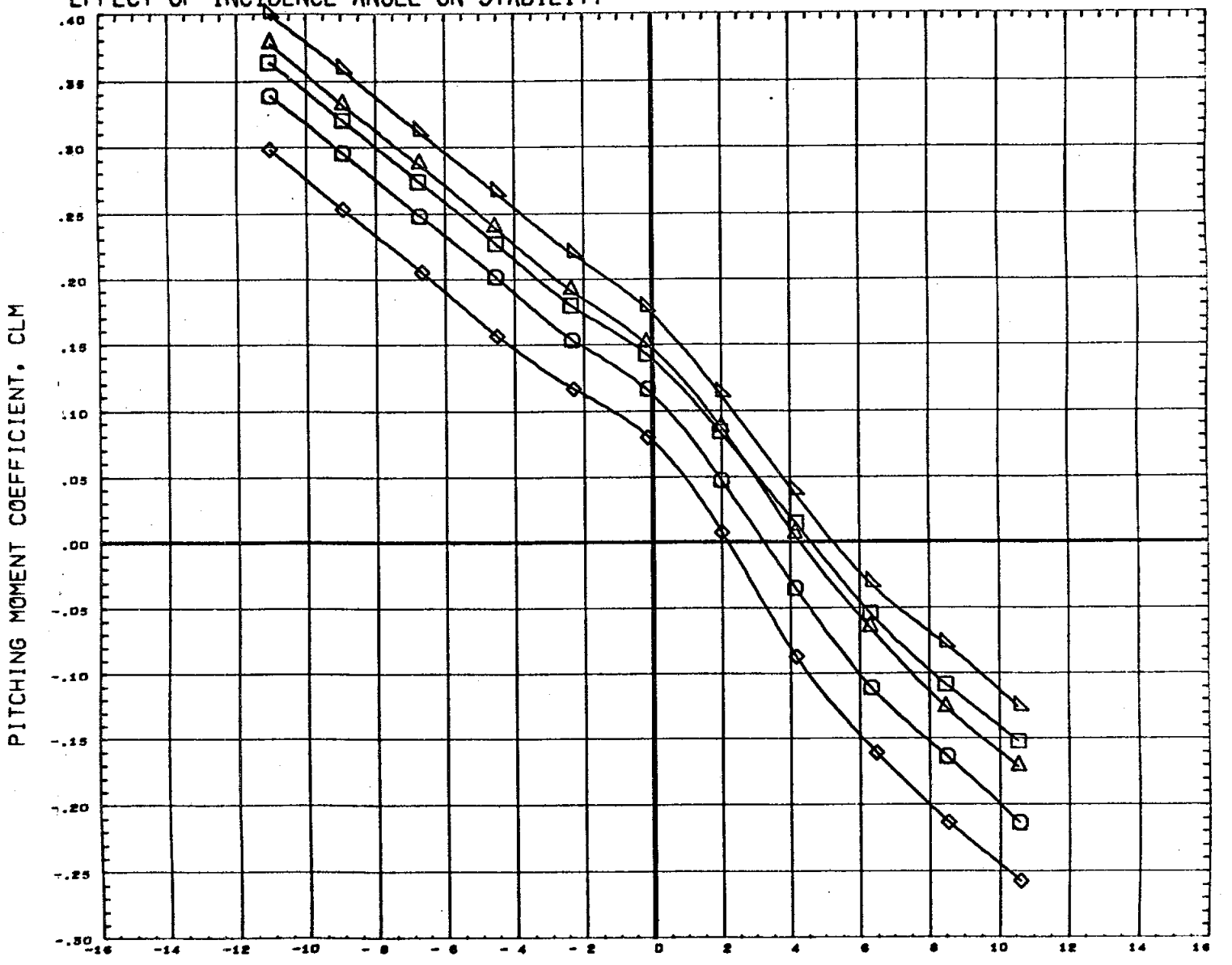
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	1.500	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY

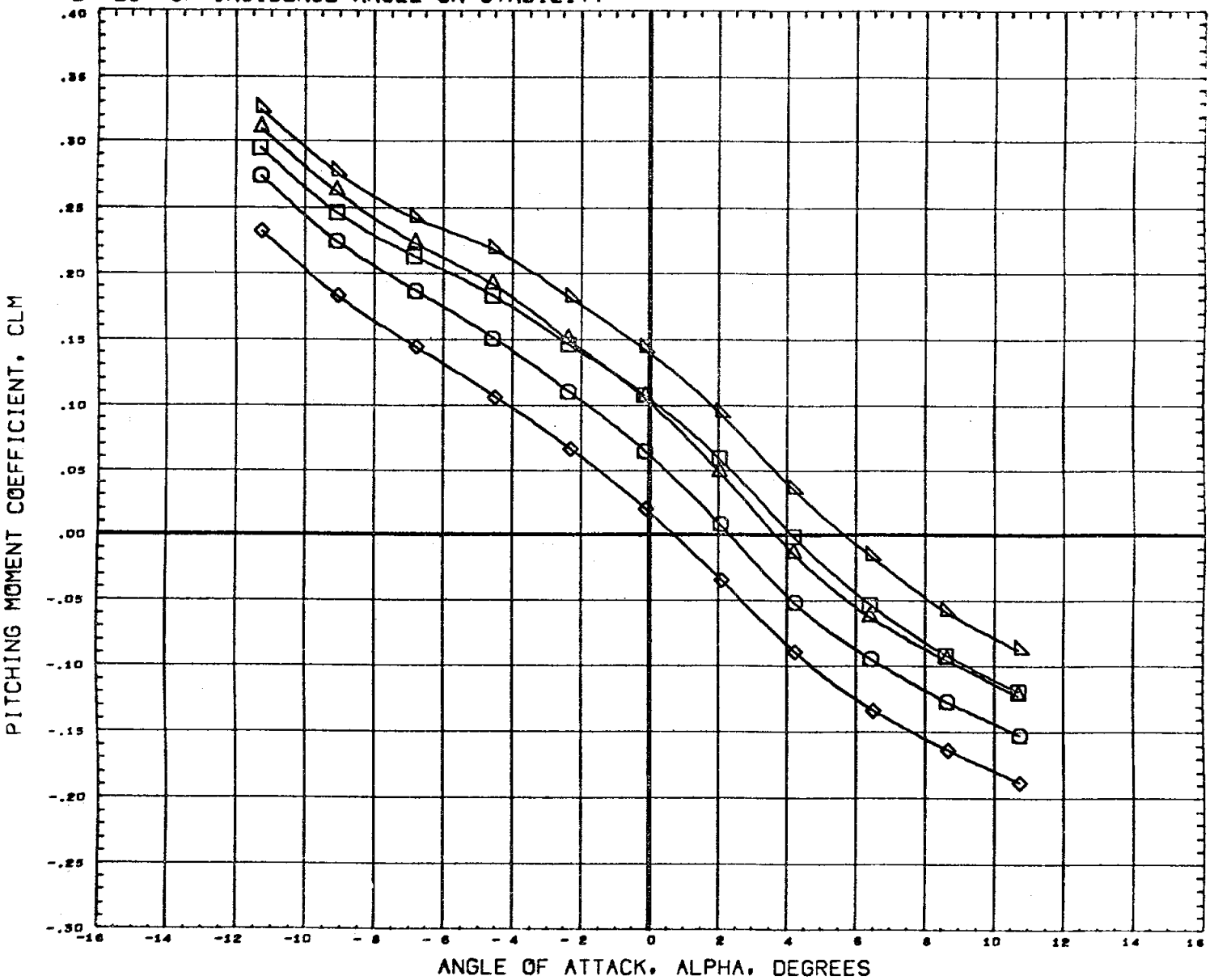


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY

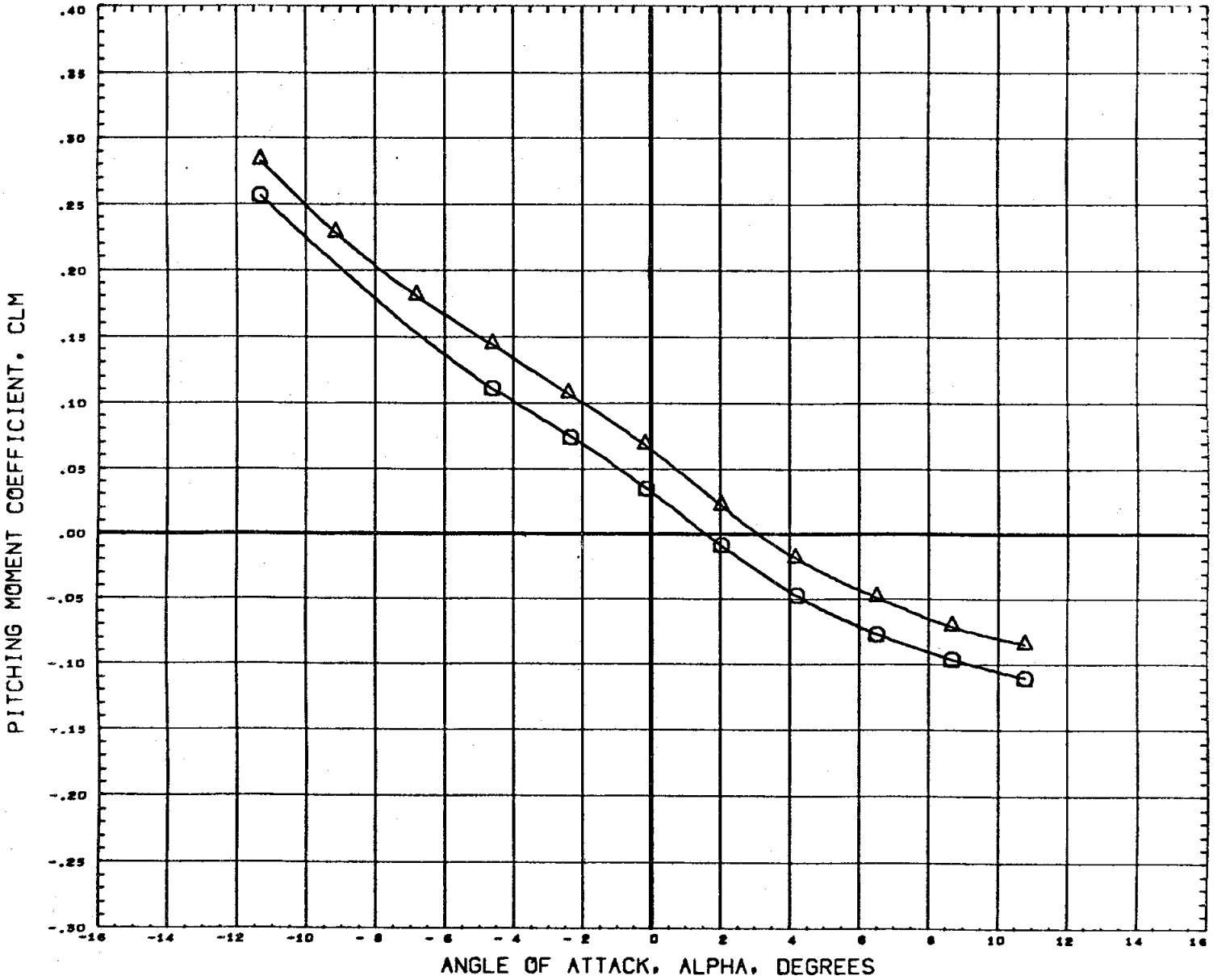


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	1.500	0.000	0.000
(677016)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(677020)	▷	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(677022)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY

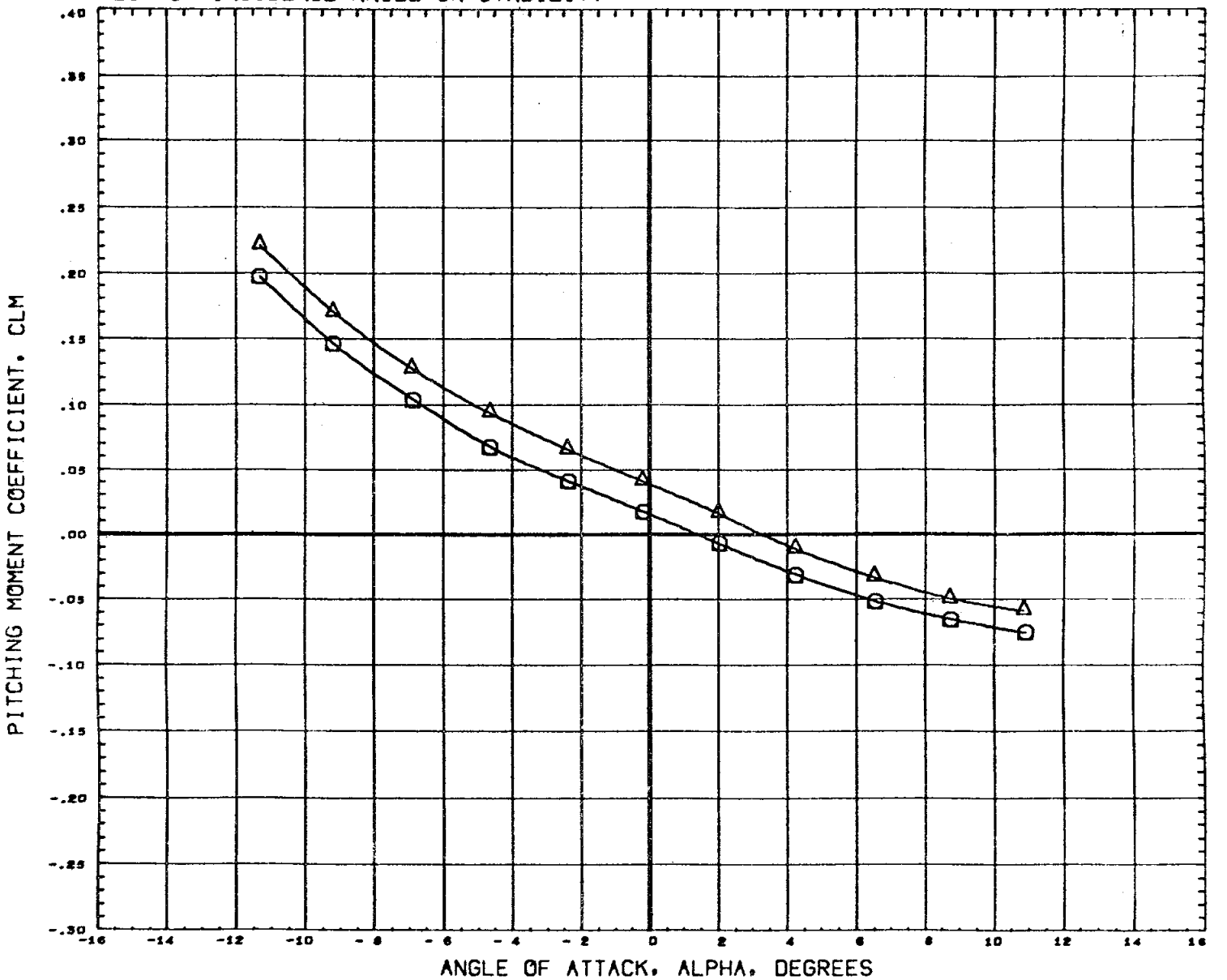


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY

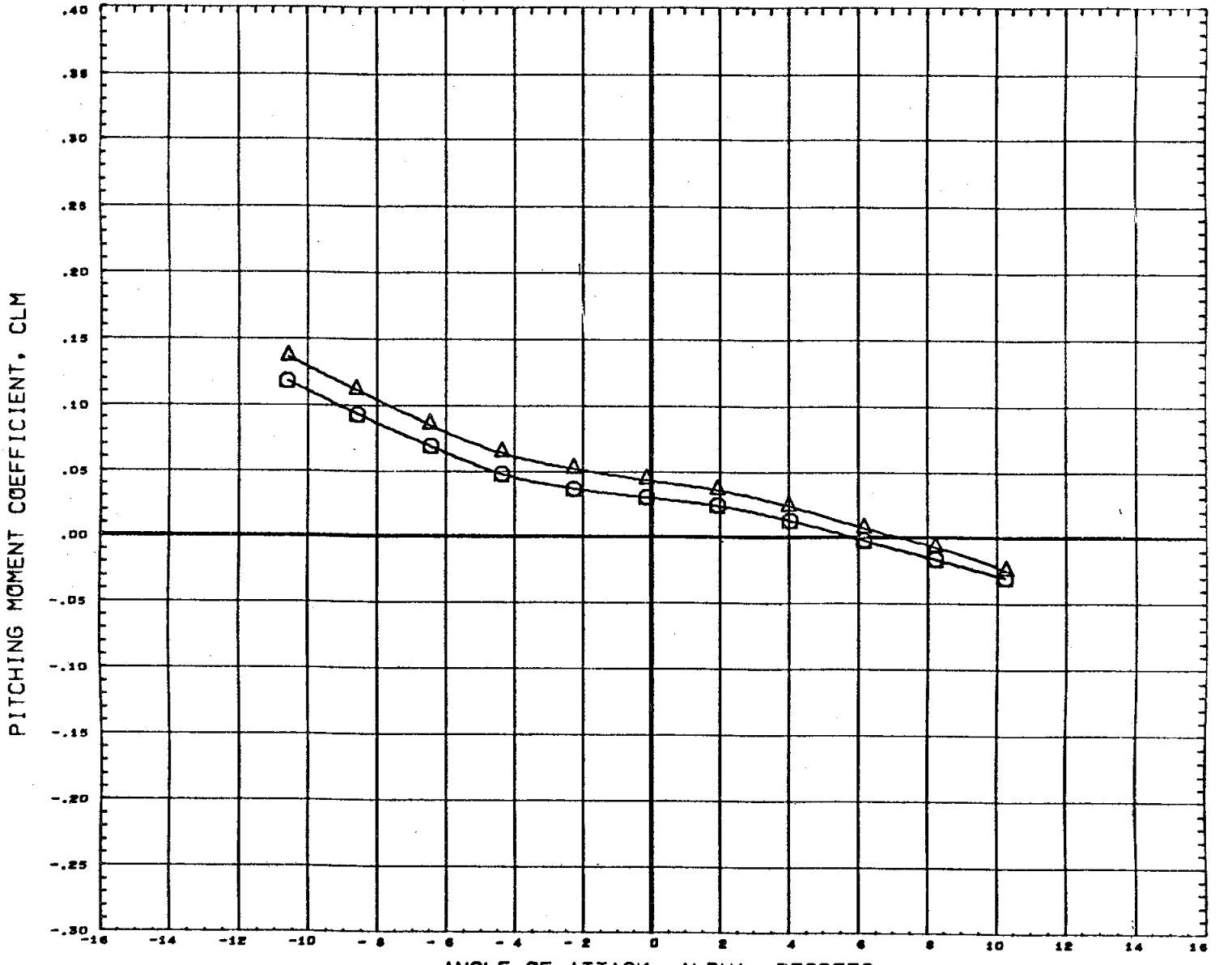


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF INCIDENCE ANGLE ON STABILITY



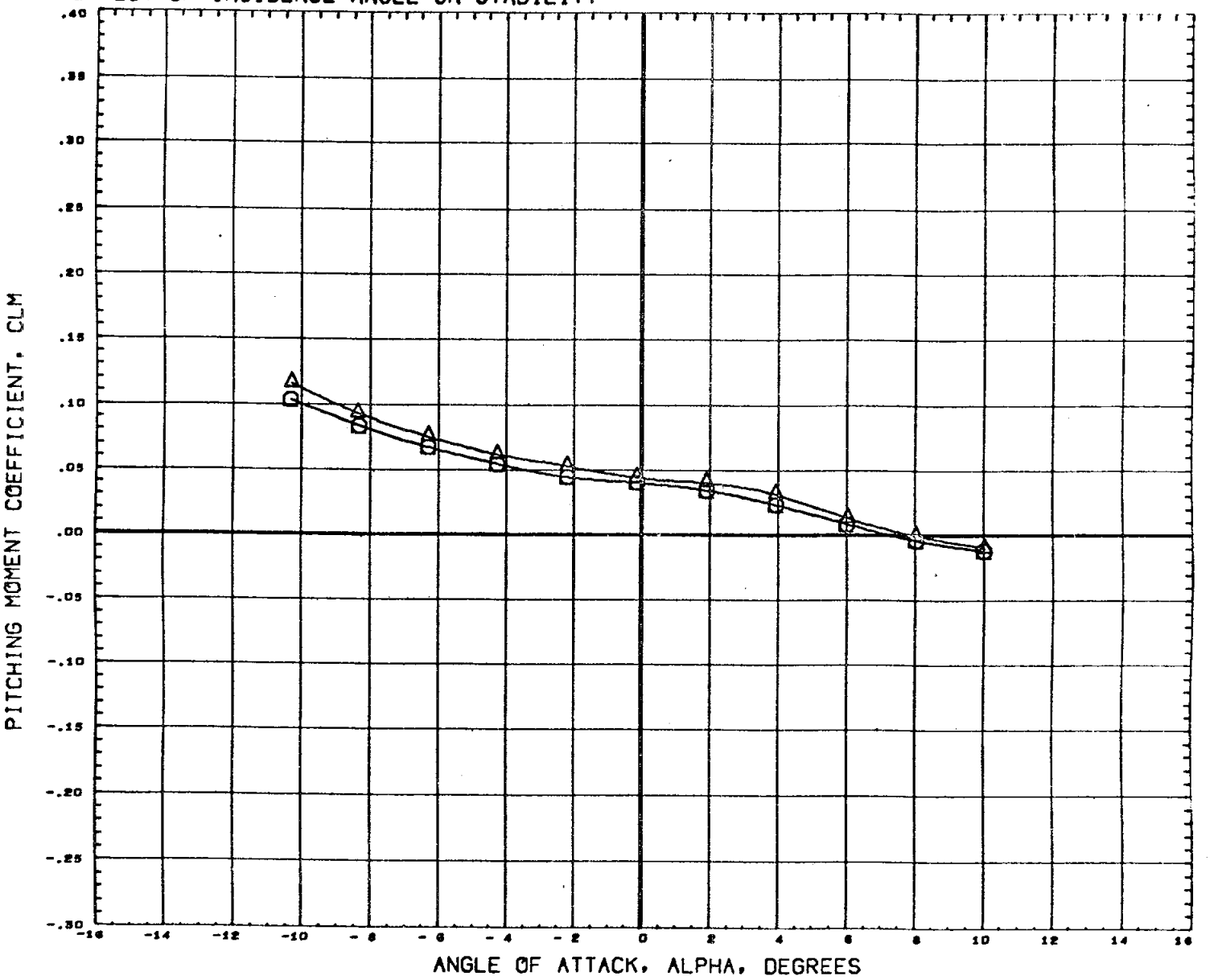
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)	D	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY

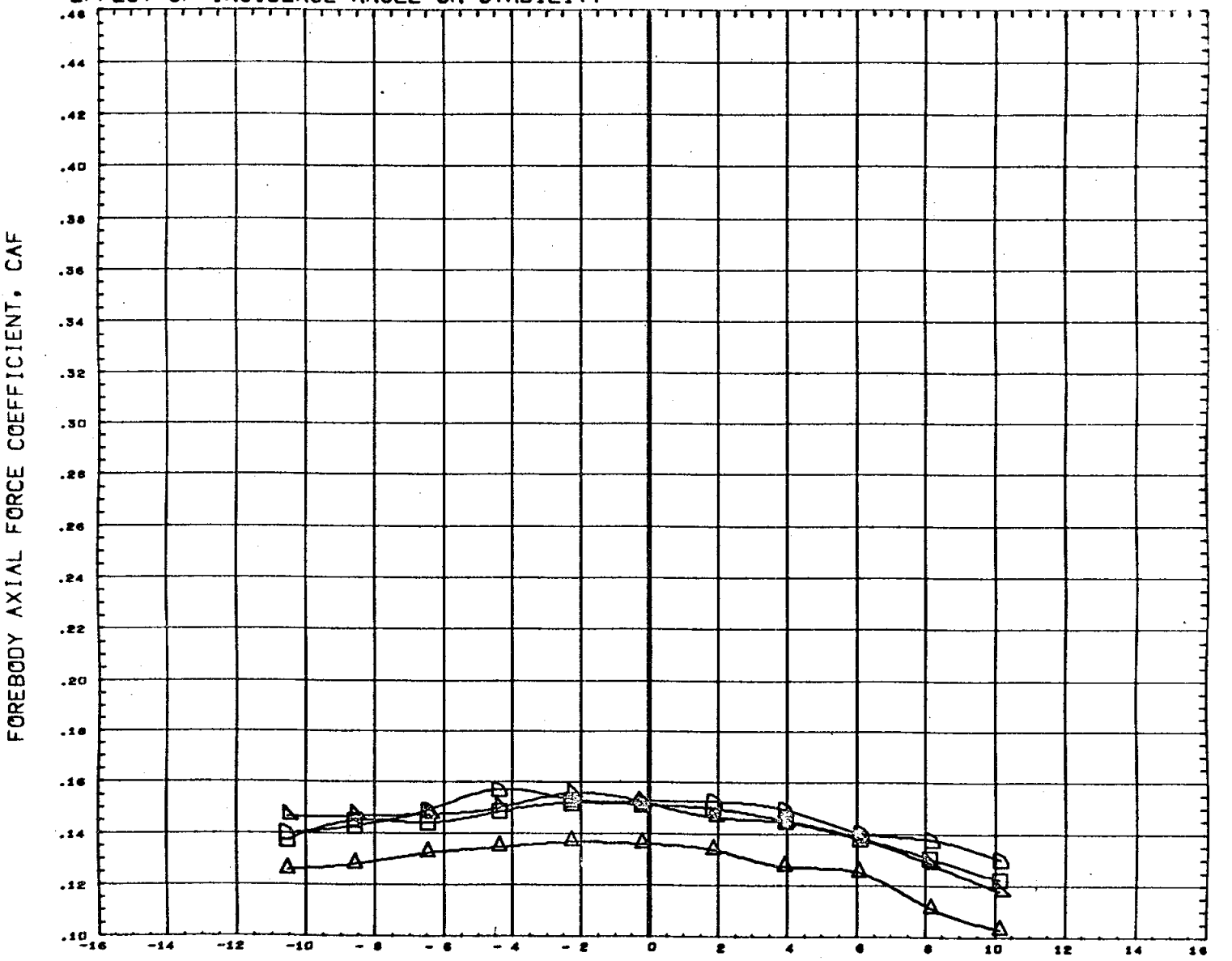


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(677016)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(677020)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

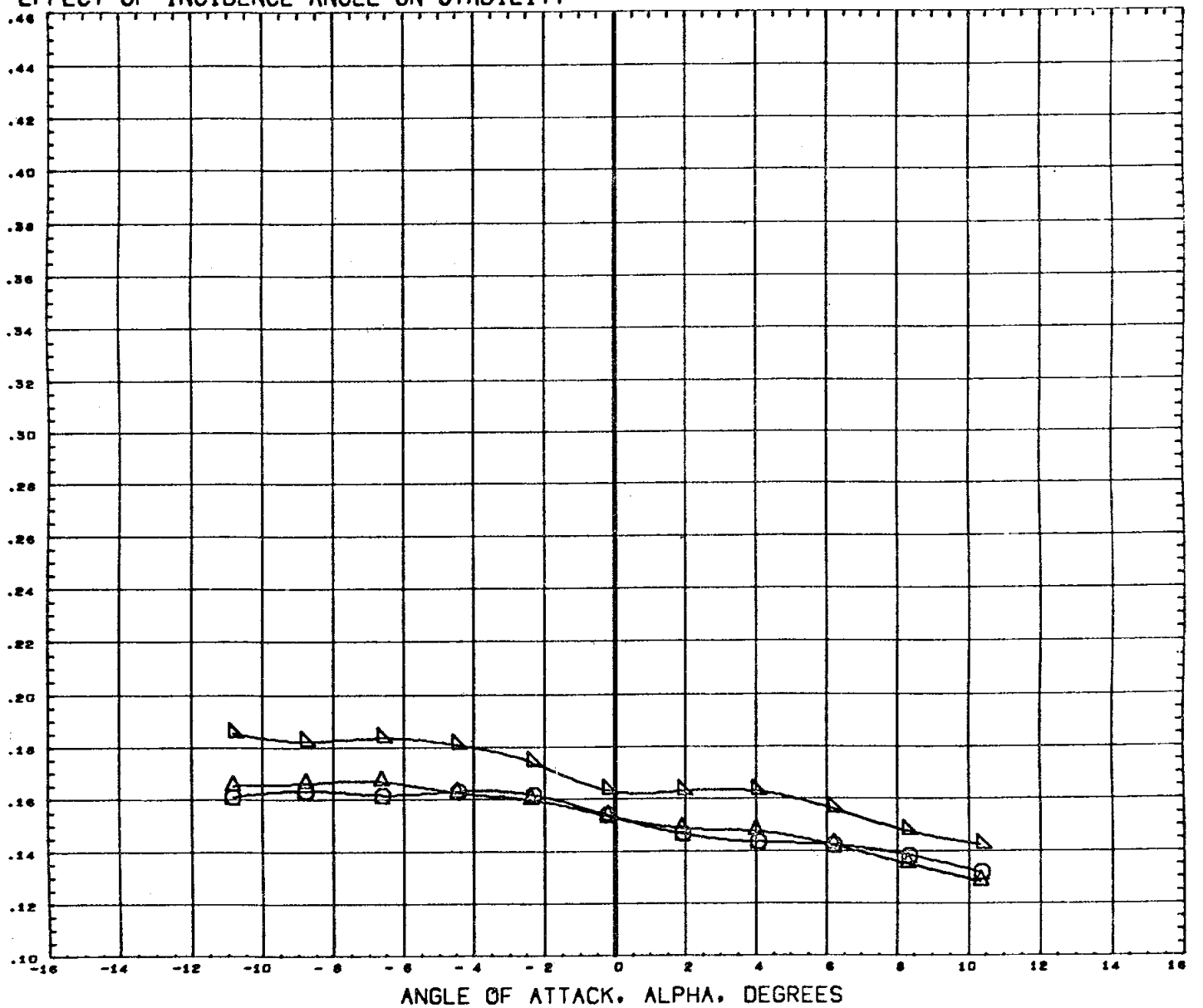


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(G77022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

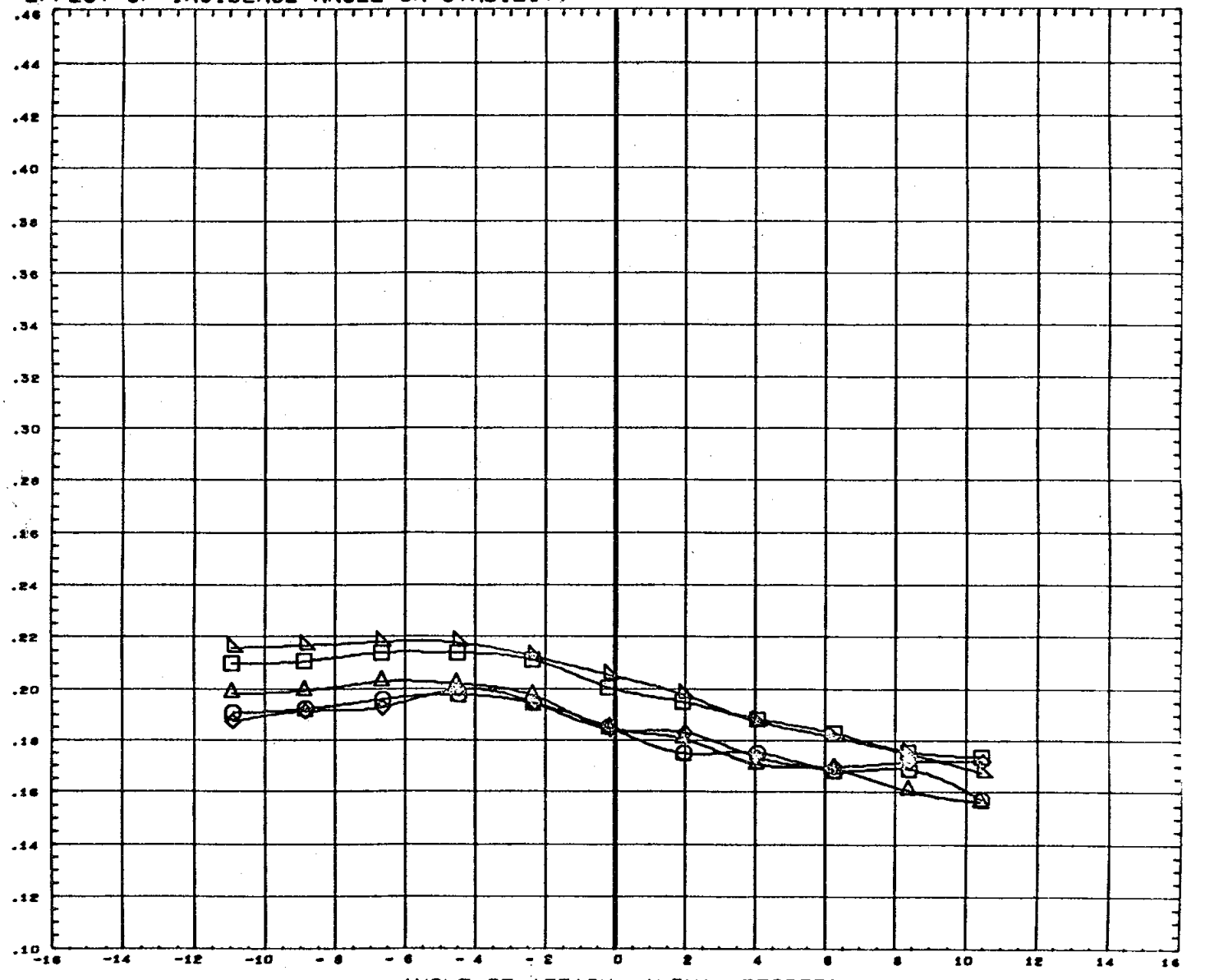
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON	REFERENCE INFORMATION		
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000	SREF	7.4190	SQ.IN.
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000	LREF	5.3120	IN.
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	BREF	5.3120	IN.
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000	XMRP	4.8200	IN.
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000	YMRP	0.0000	IN.
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	ZMRP	0.0000	IN.
							SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY

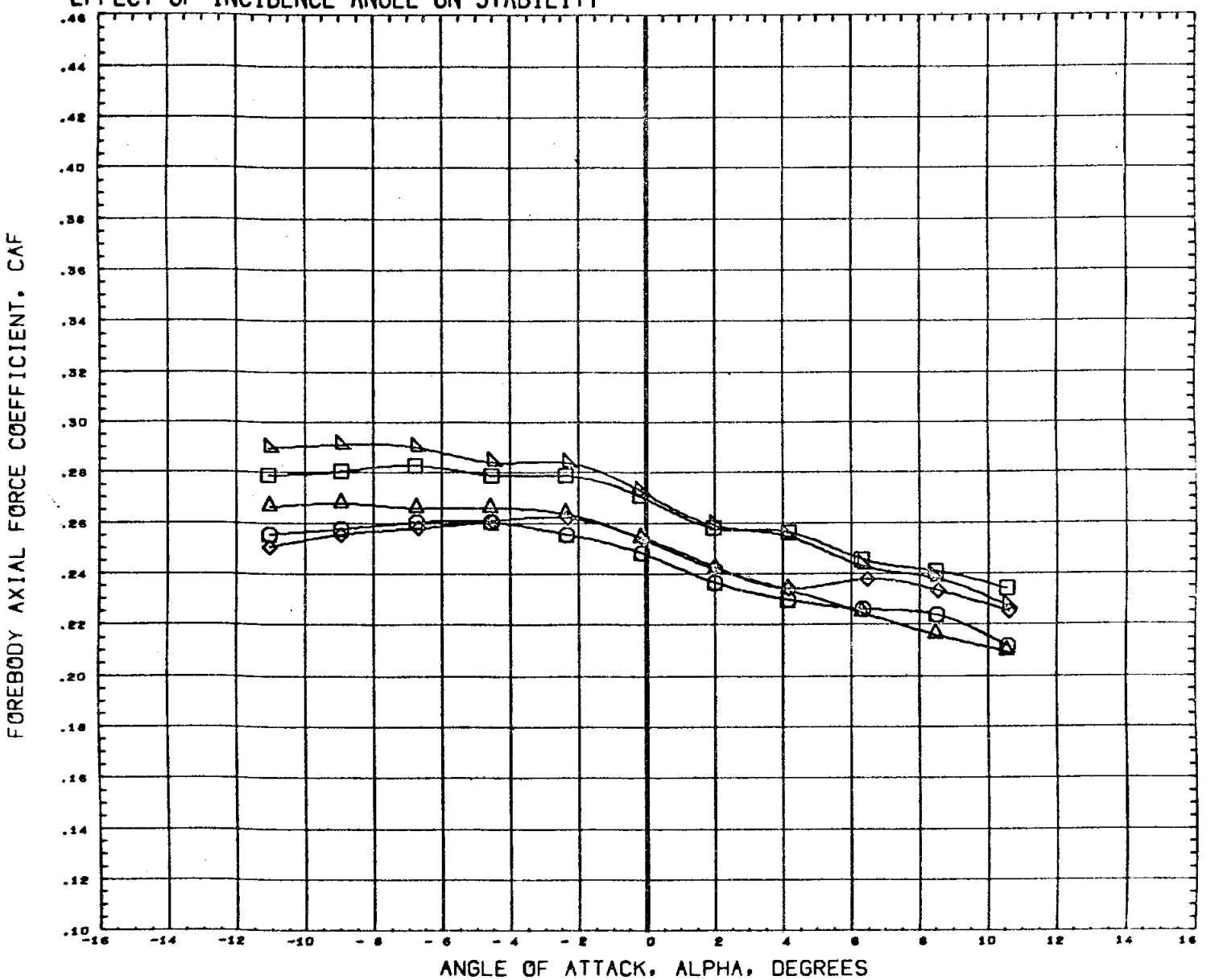


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(677020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(677022)	D	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY

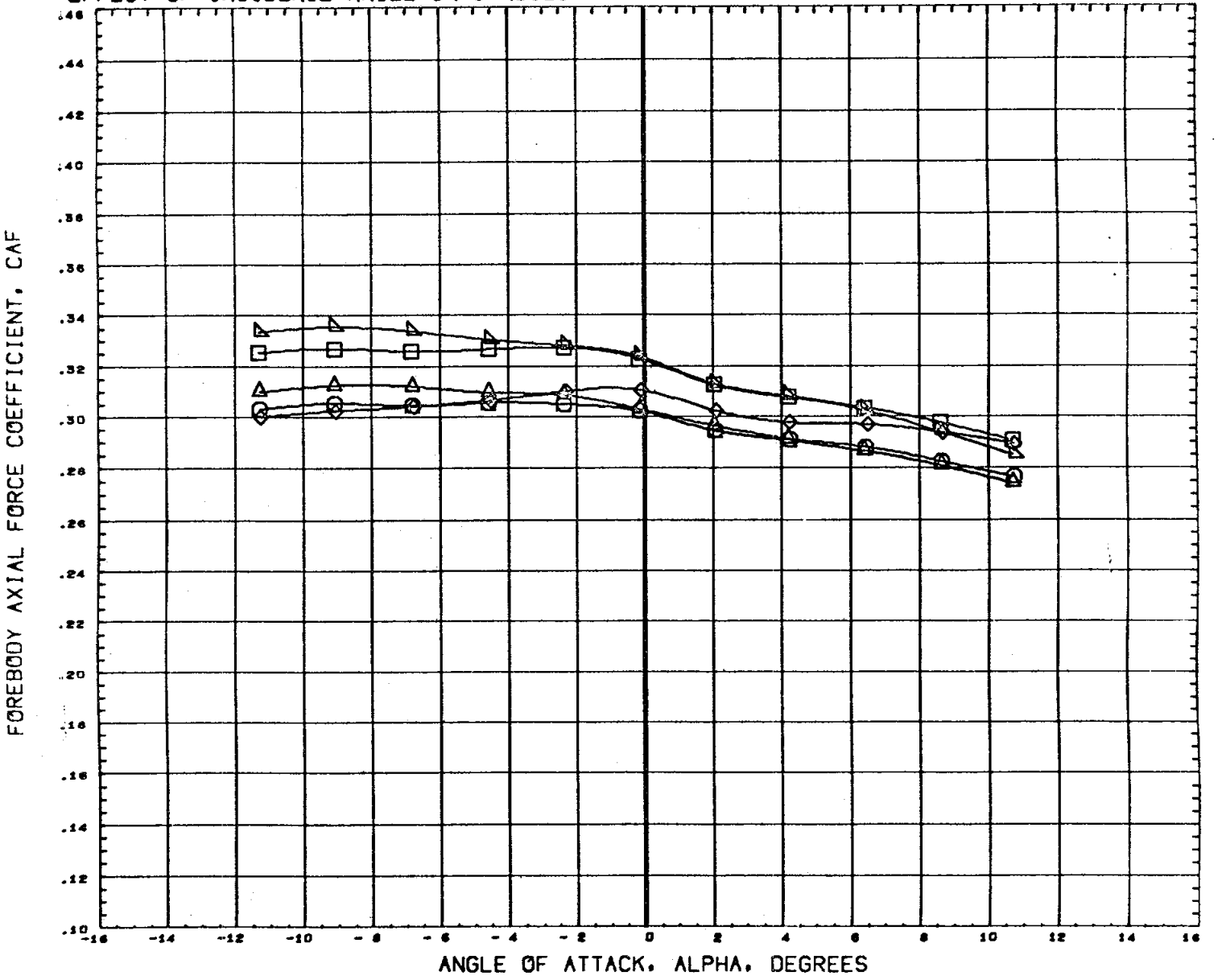


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(G77016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY

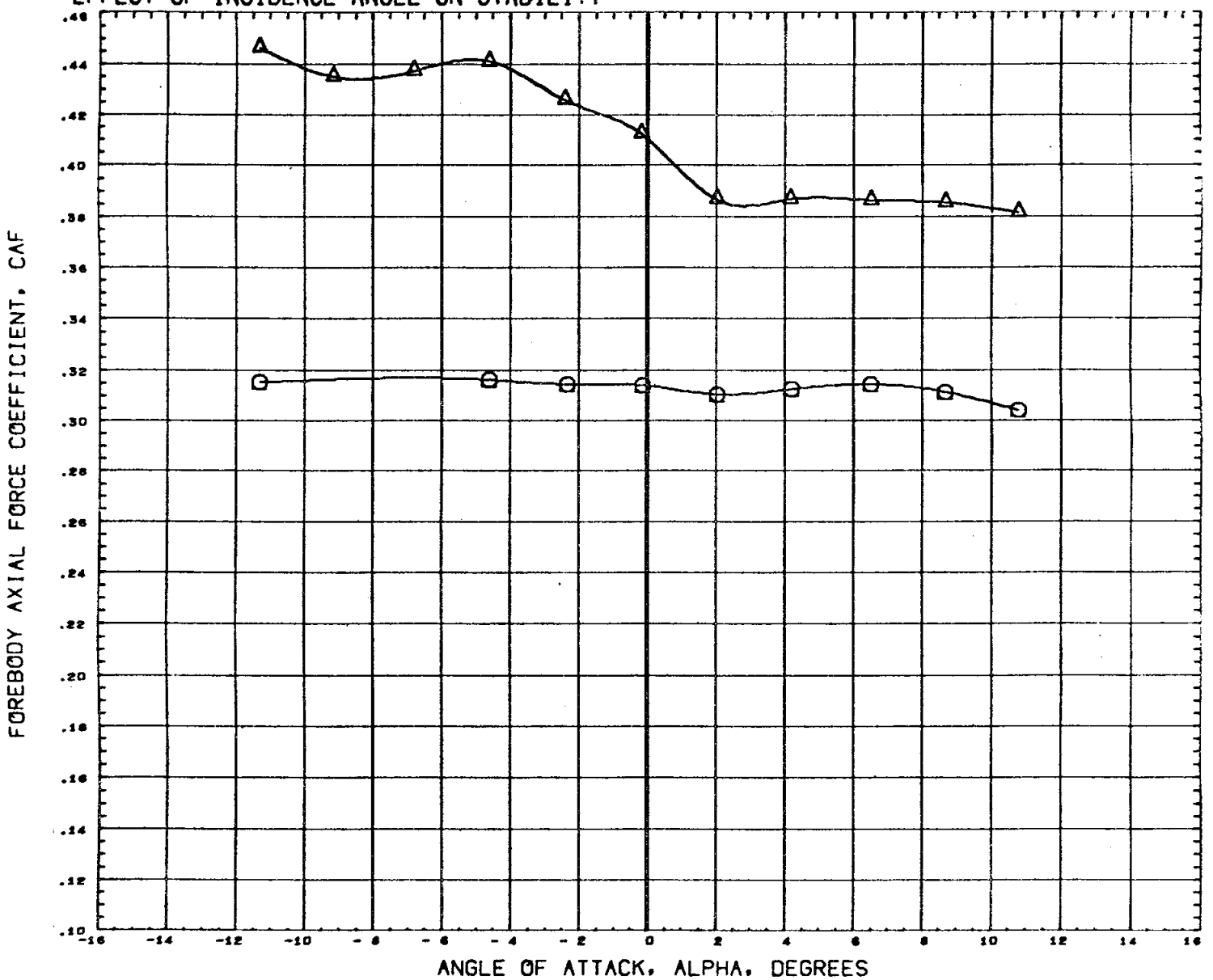


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(G77023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY

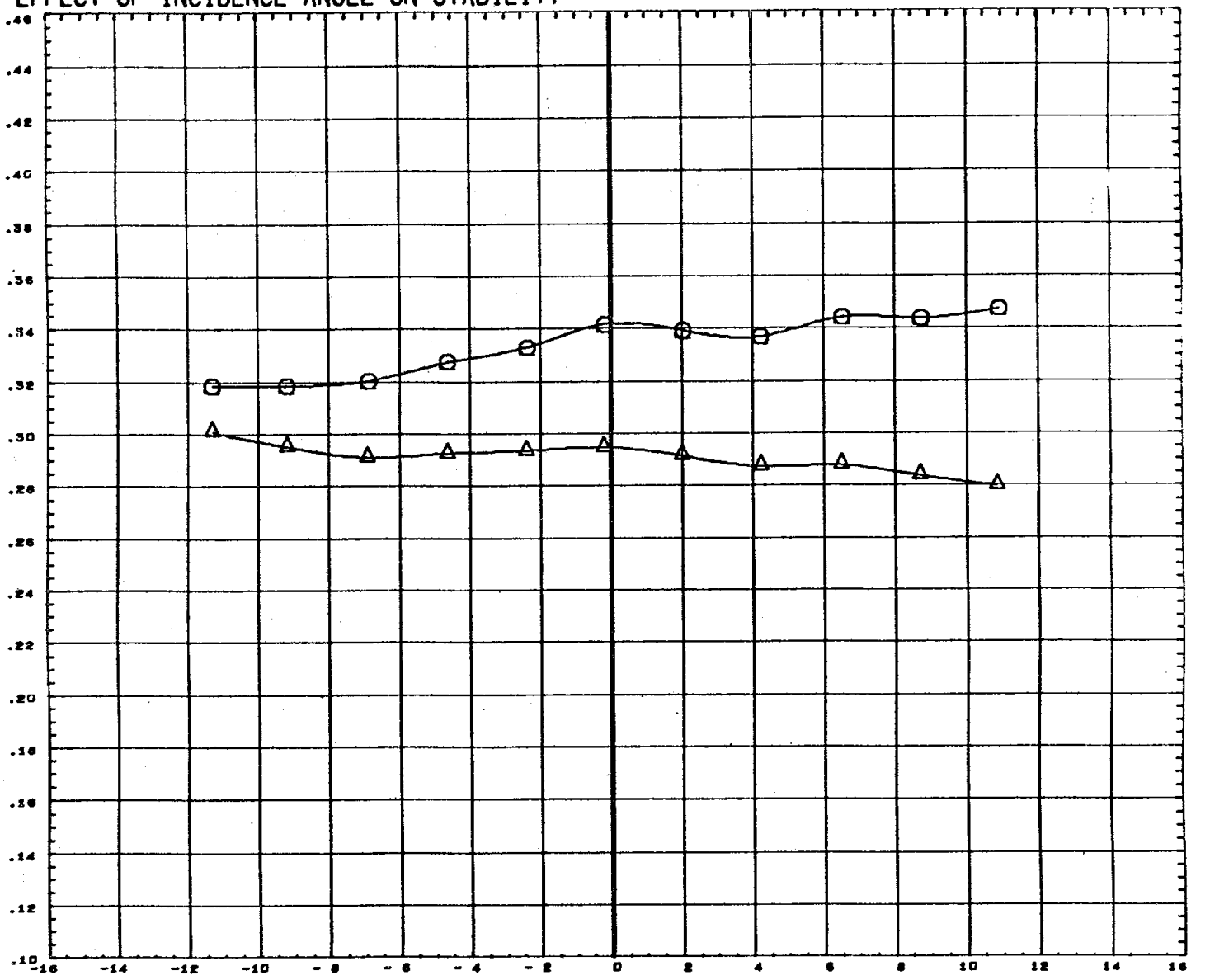


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000
(677016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(677020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	0.000
(677022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY

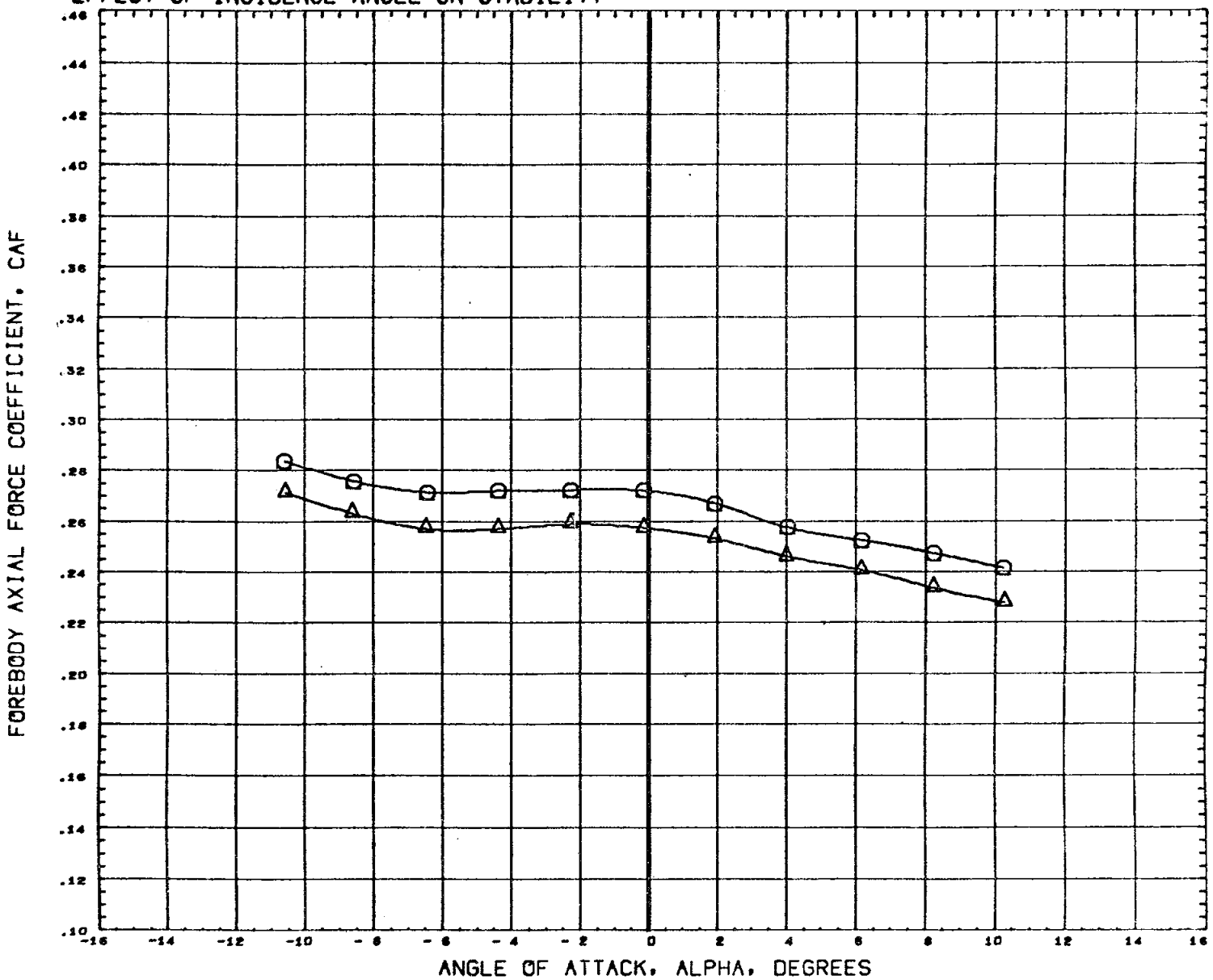


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)	◁	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

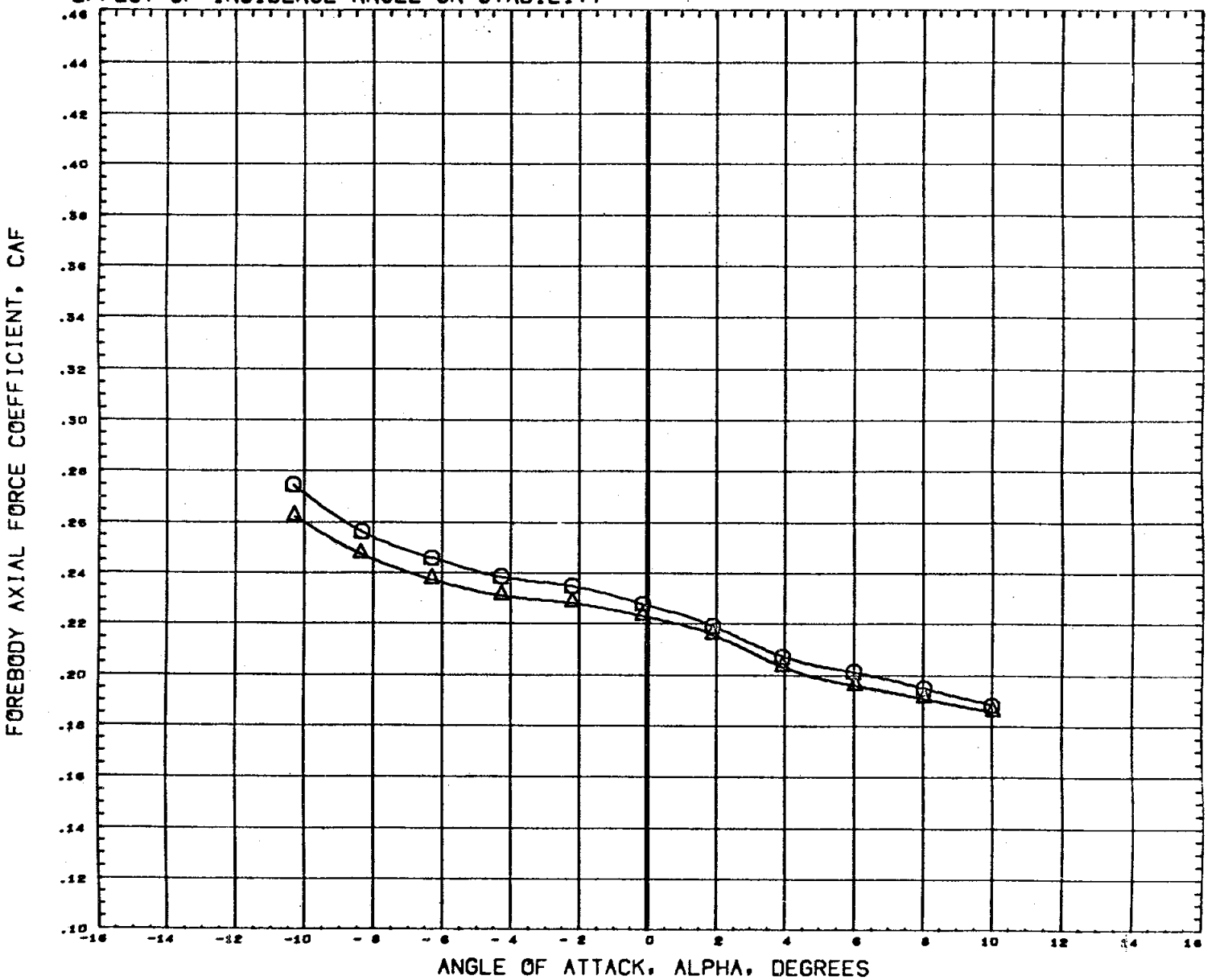
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON	REFERENCE INFORMATION		
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000	SREF	7.4190	SQ.IN.
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000	LREF	5.3120	IN.
(677023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	BREF	5.3120	IN.
(677016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000	XMRP	4.8200	IN.
(677020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000	YMRP	0.0000	IN.
(677022)	⊠	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	ZMRP	0.0000	IN.
							SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY

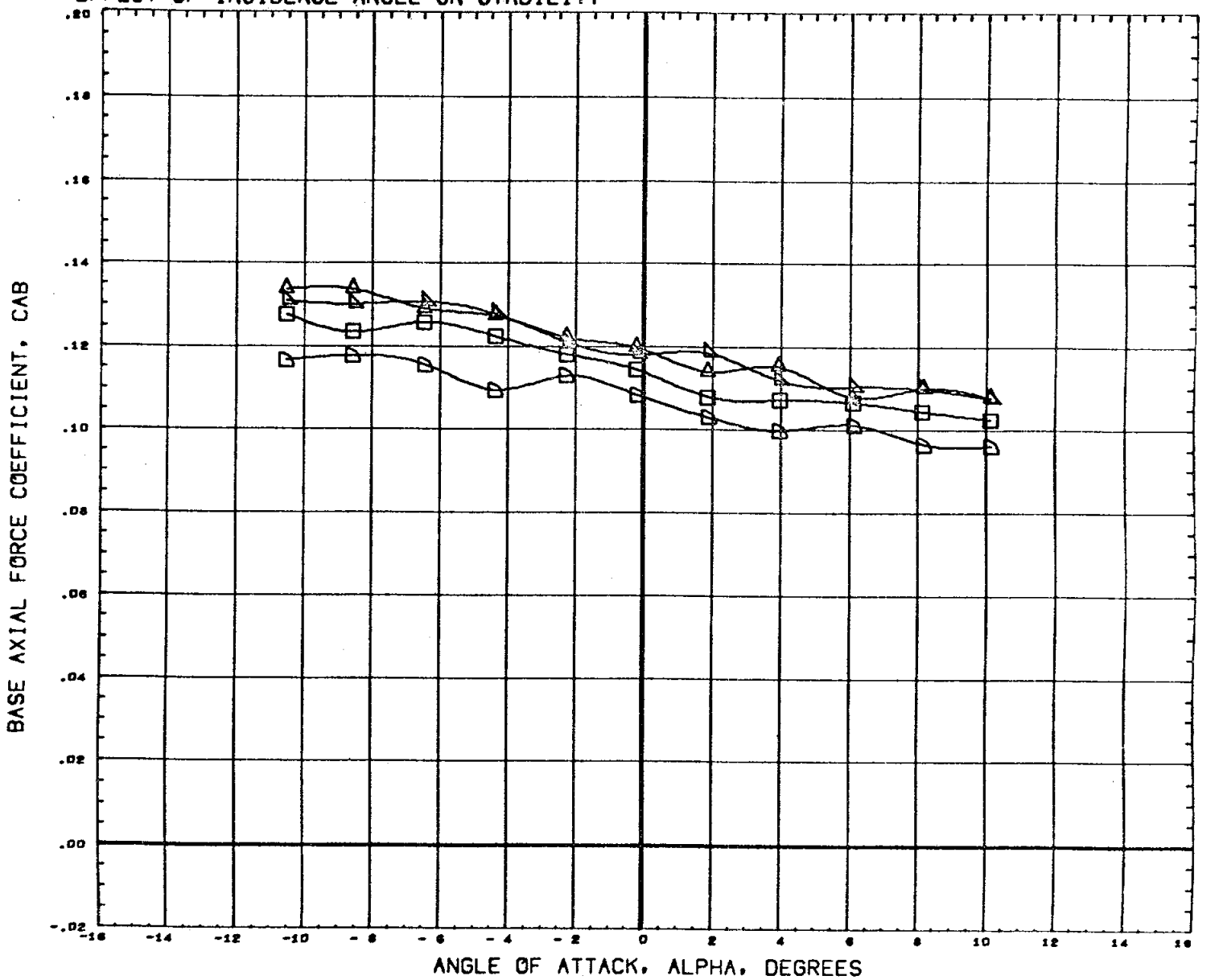


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(677016)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(677020)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

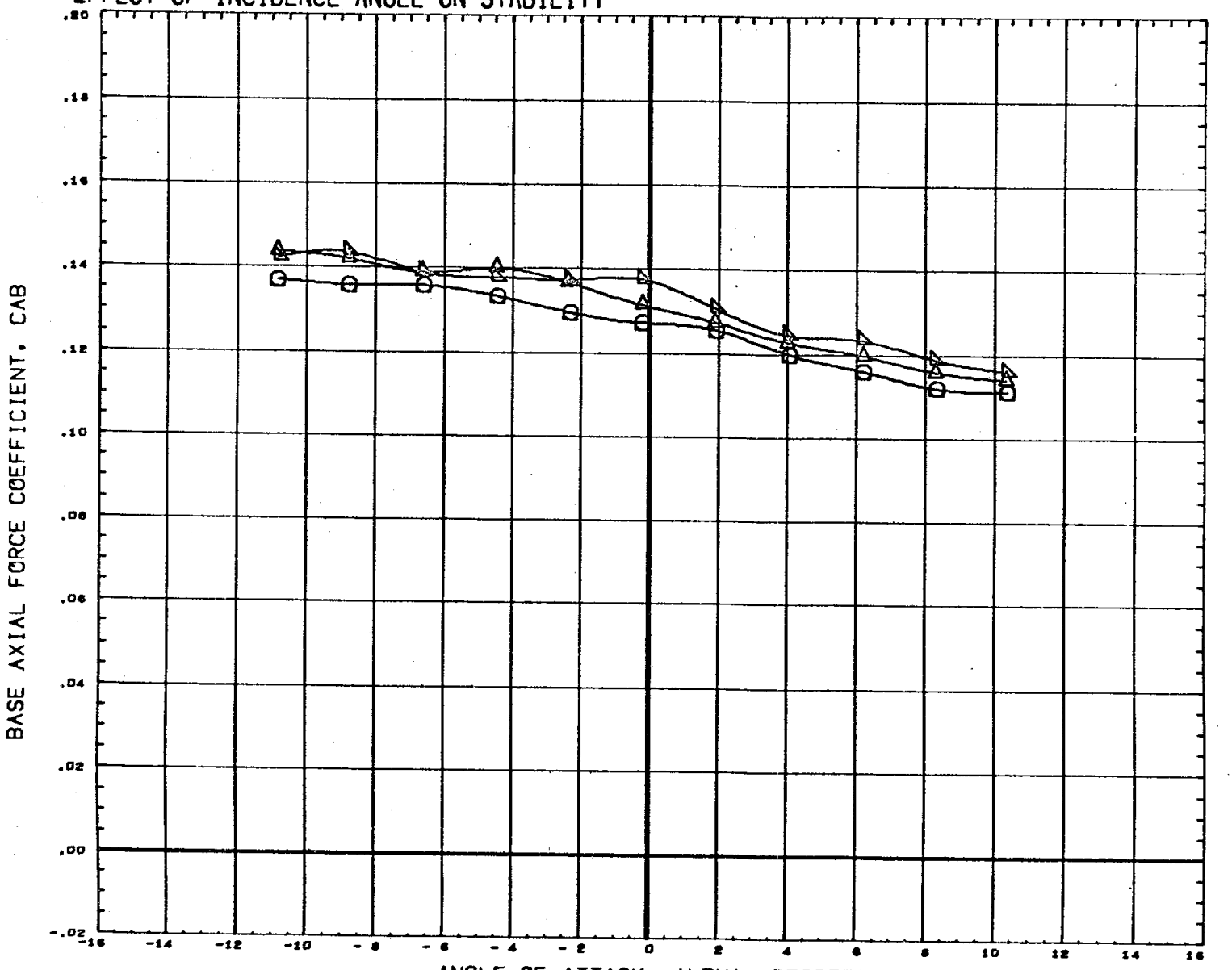


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000
(677016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(677022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY



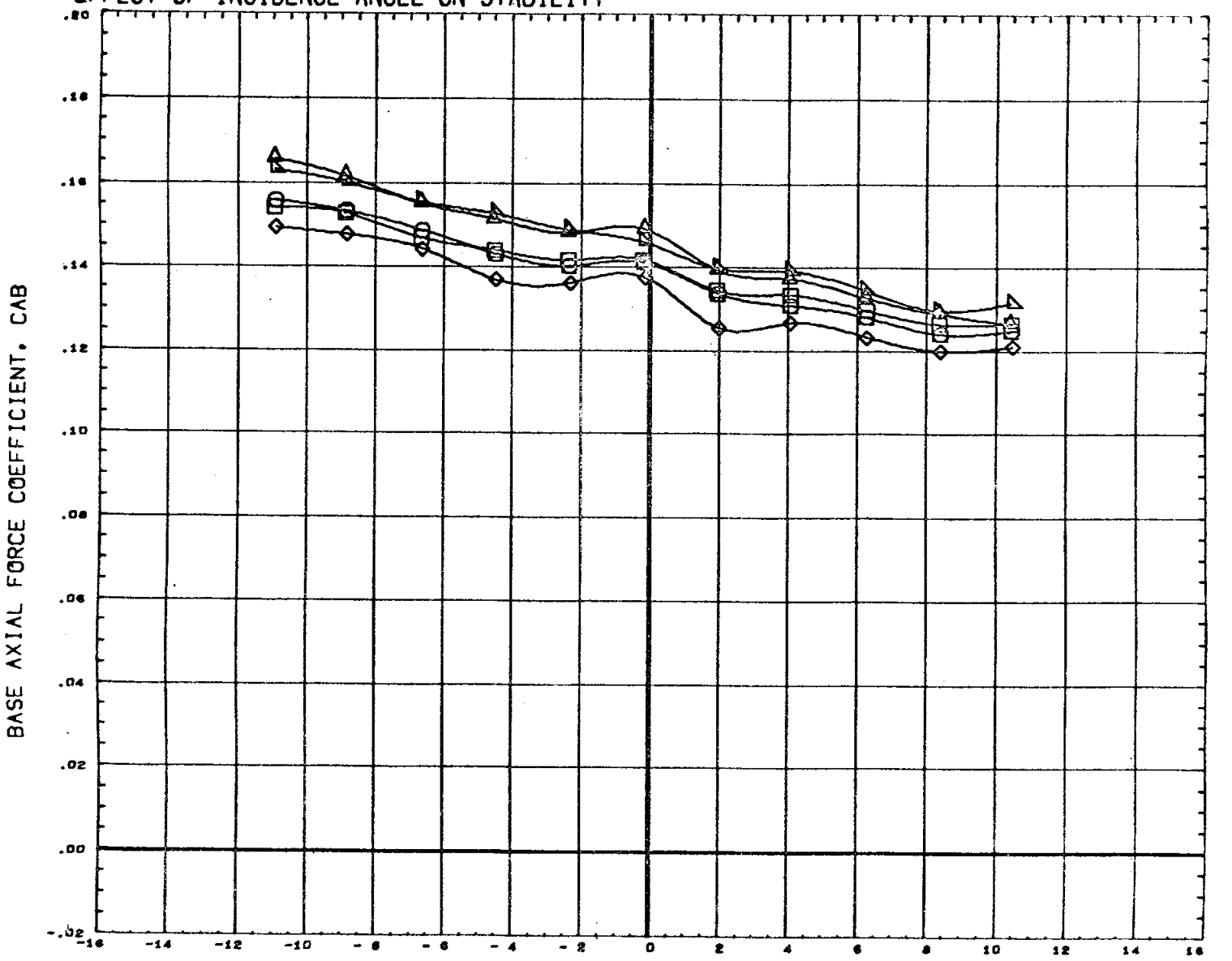
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY

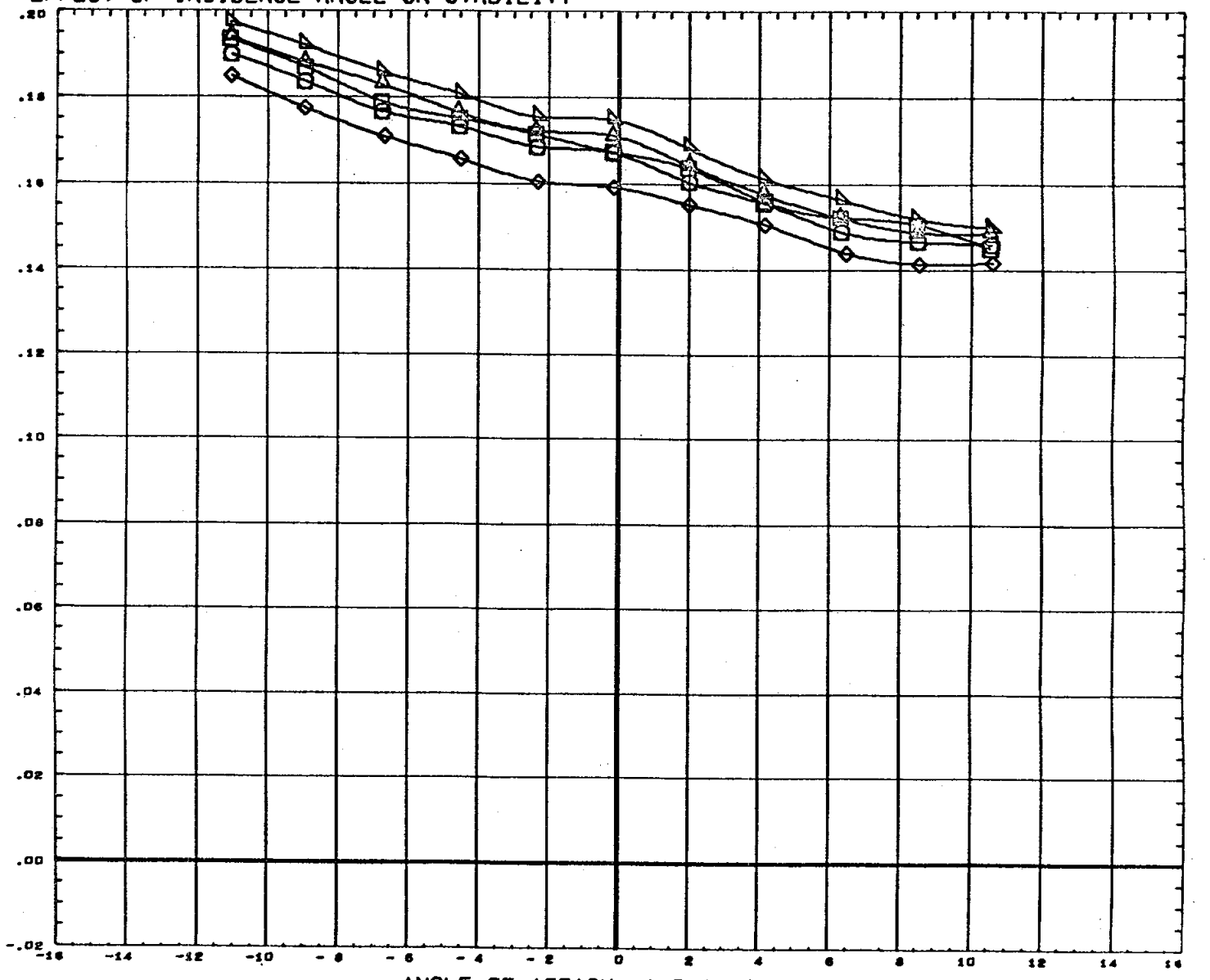


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY



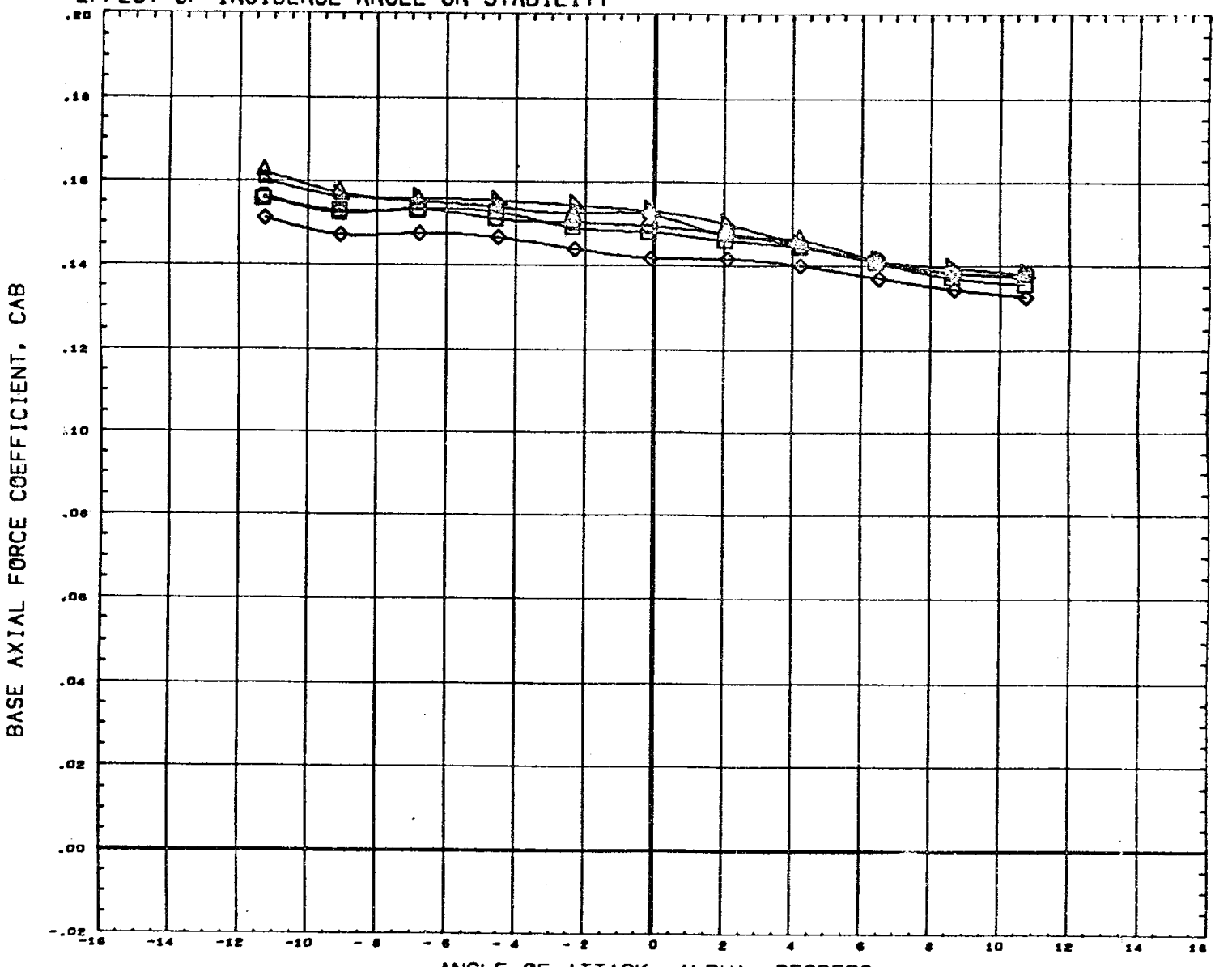
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	1.500	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY

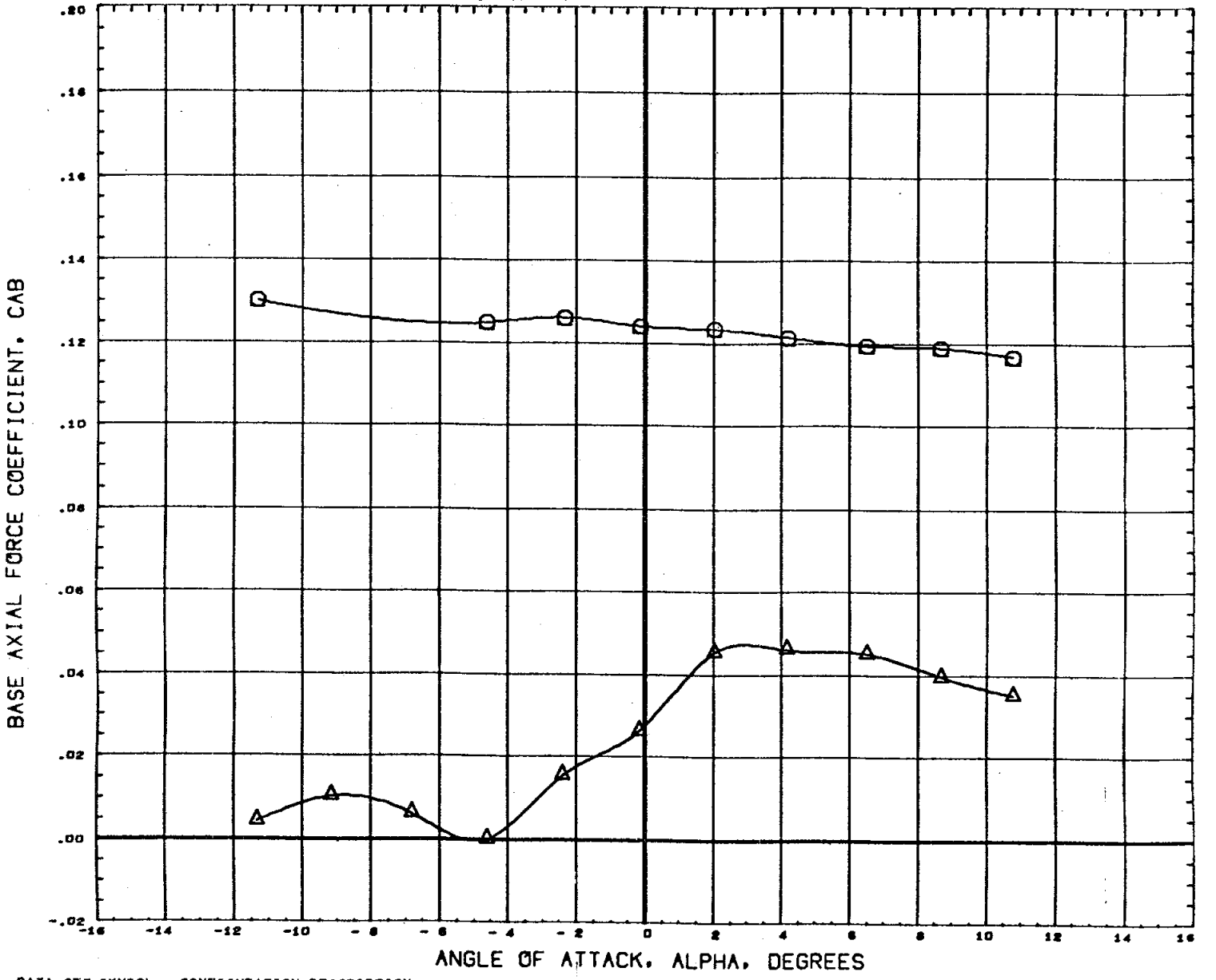


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677018)	⊠	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(677020)	⊿	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(677022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



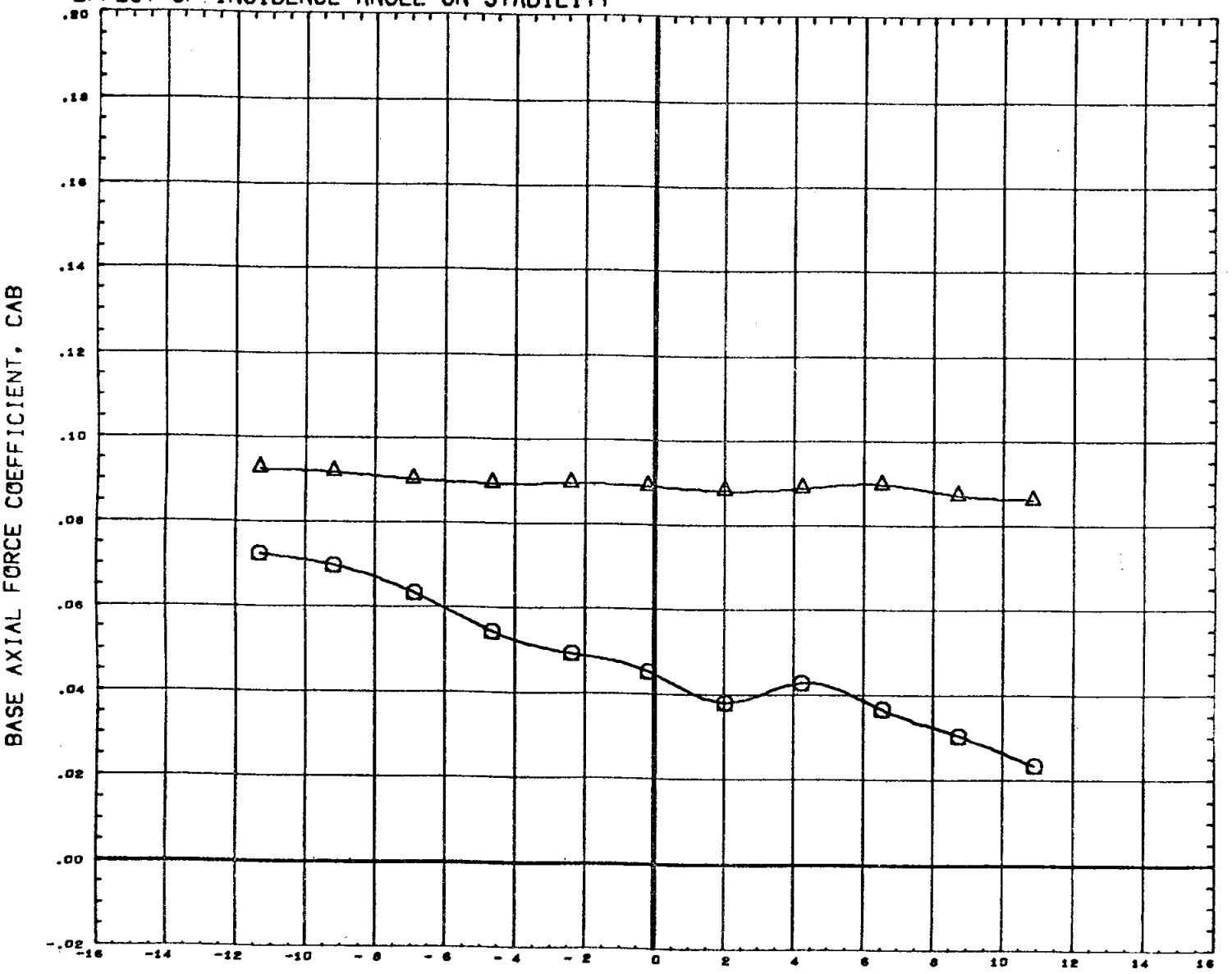
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)	⬠	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY



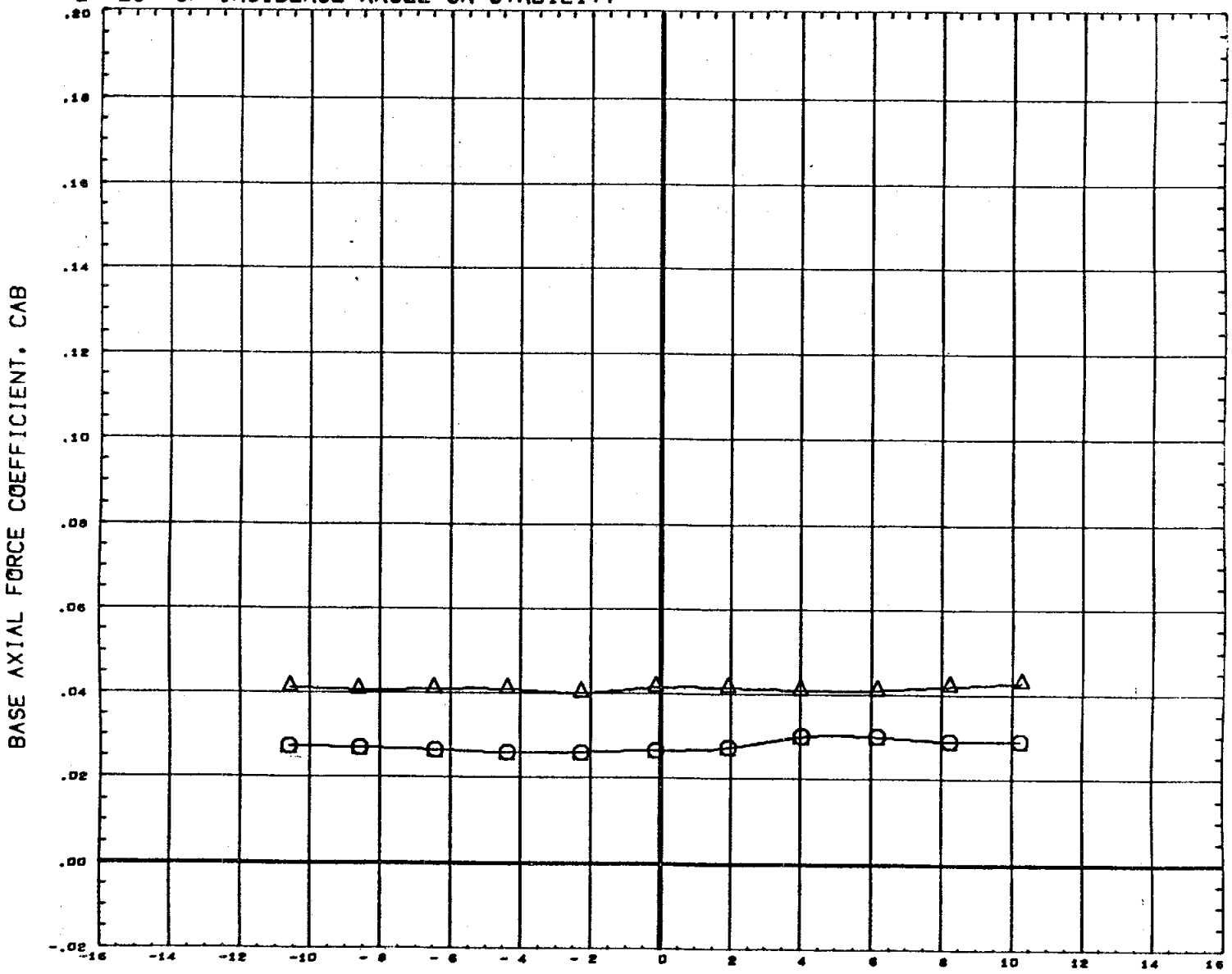
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF INCIDENCE ANGLE ON STABILITY



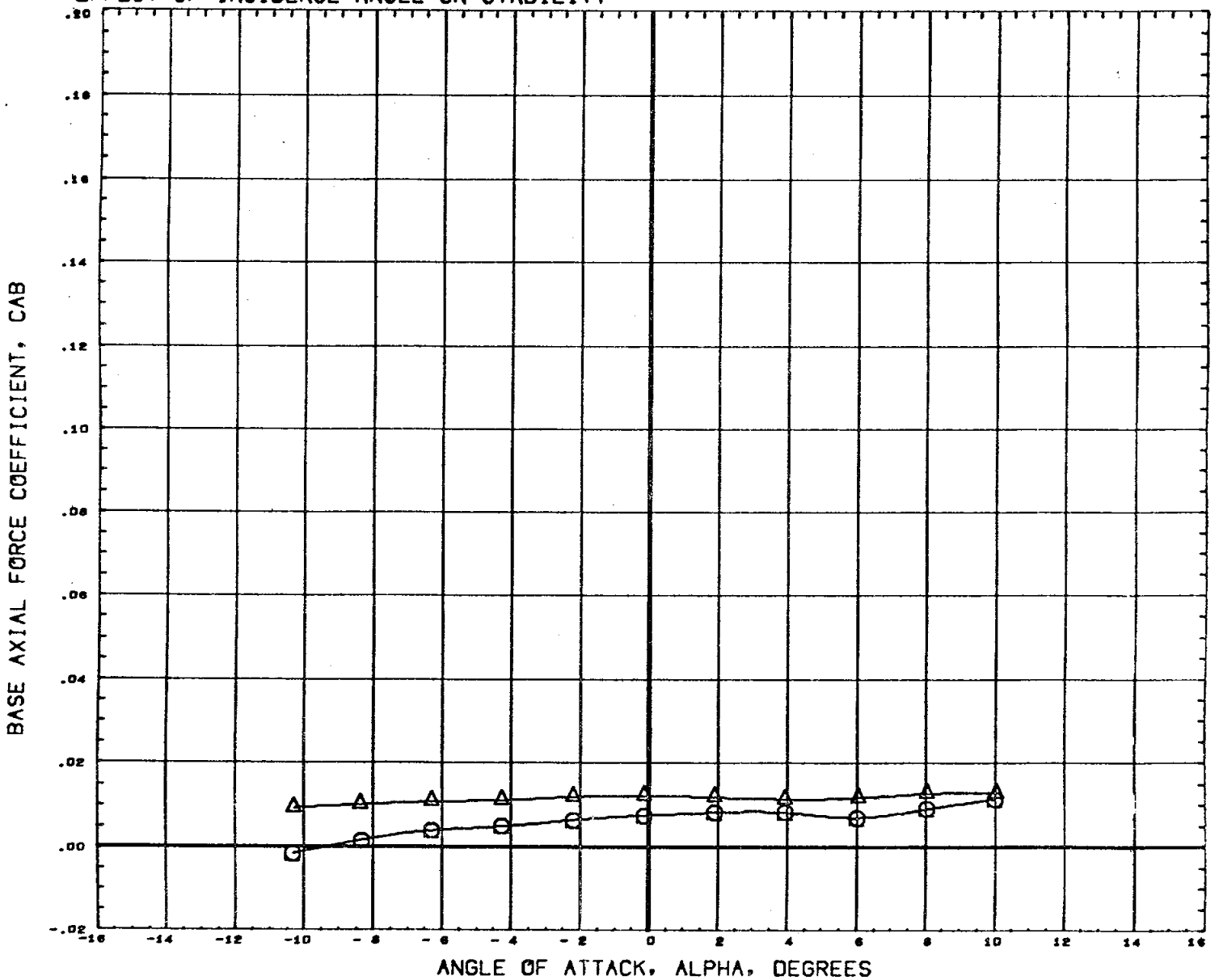
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677020)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY

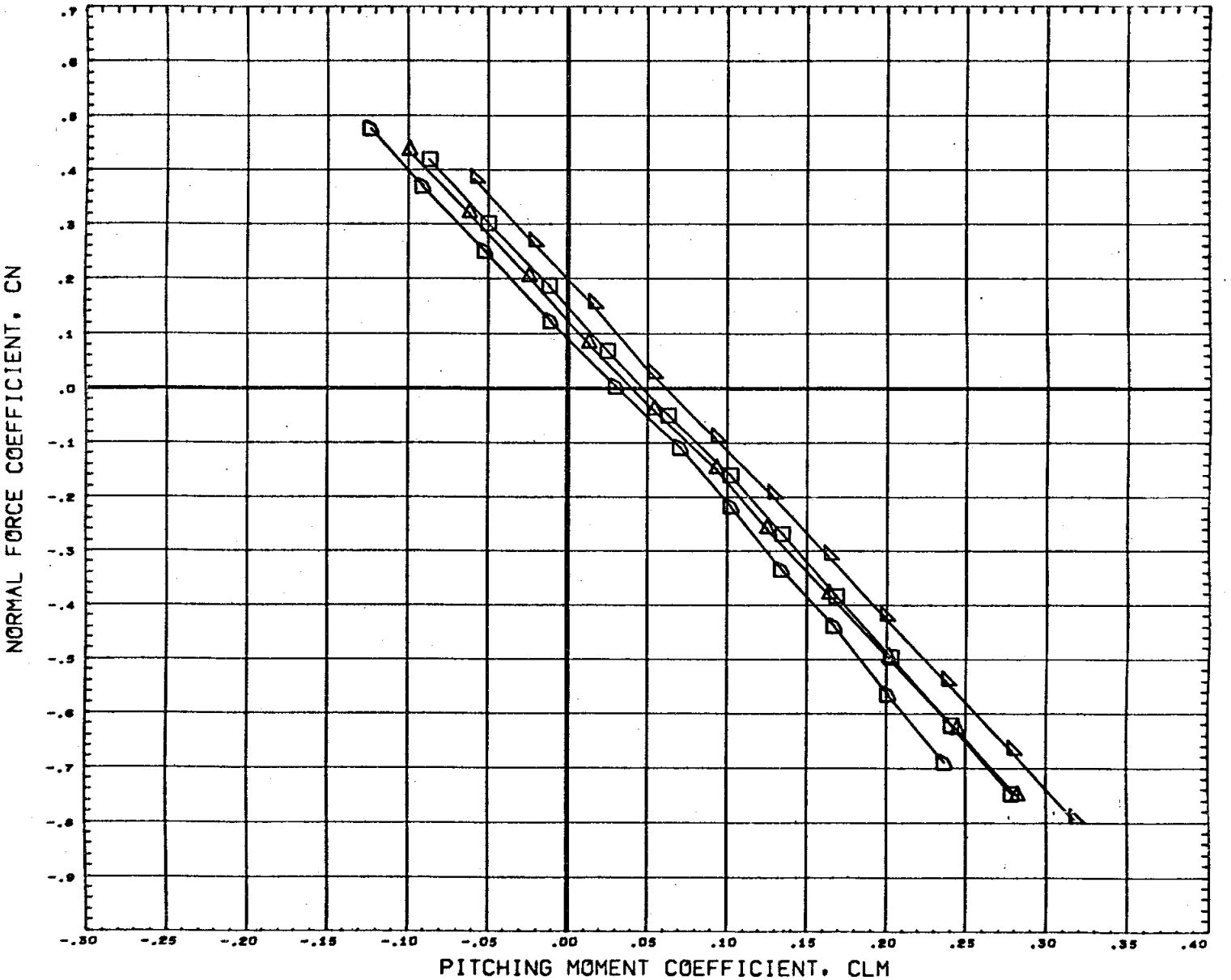


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77025)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77030)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)	D	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

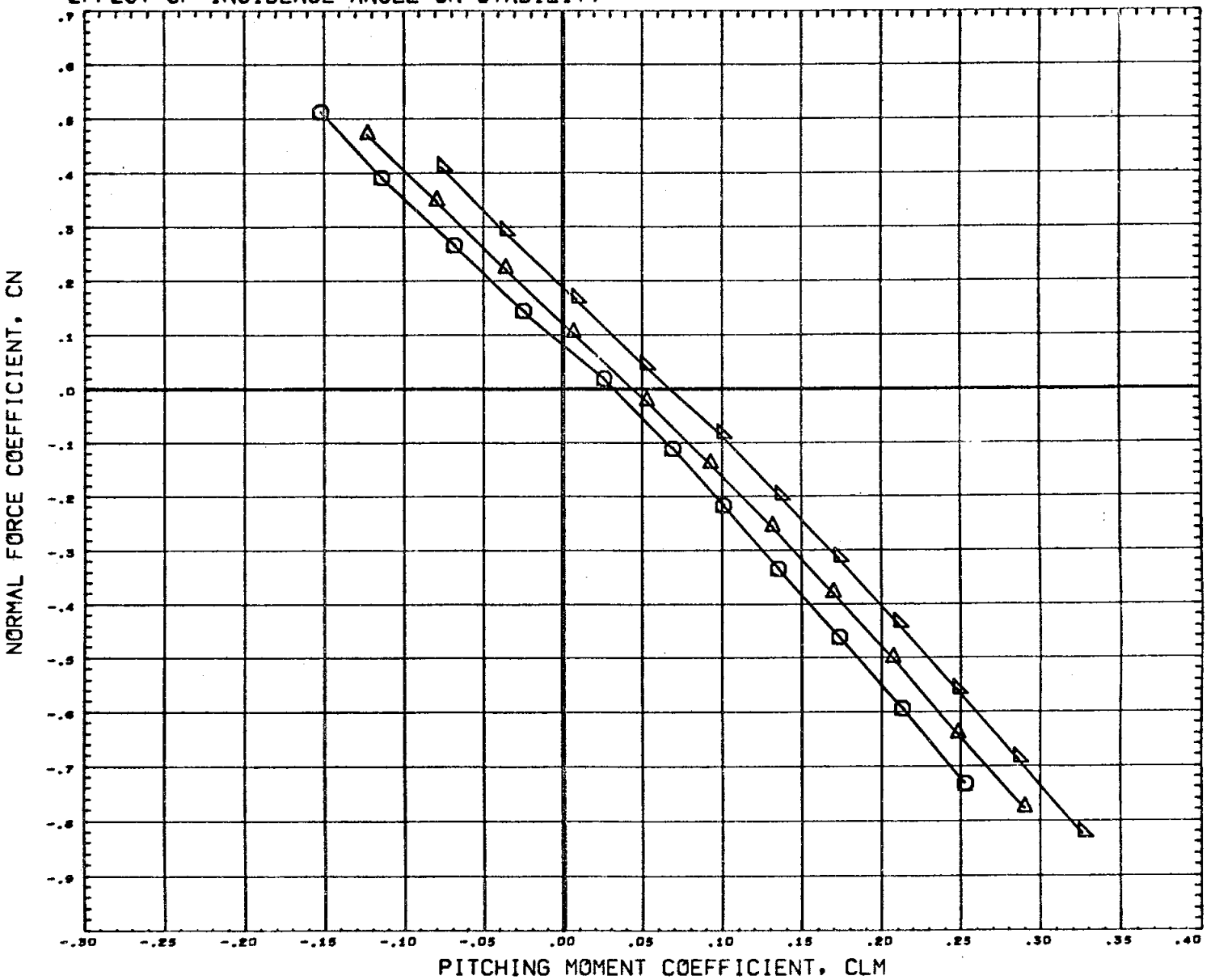


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(677010)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000
(677016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(677022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

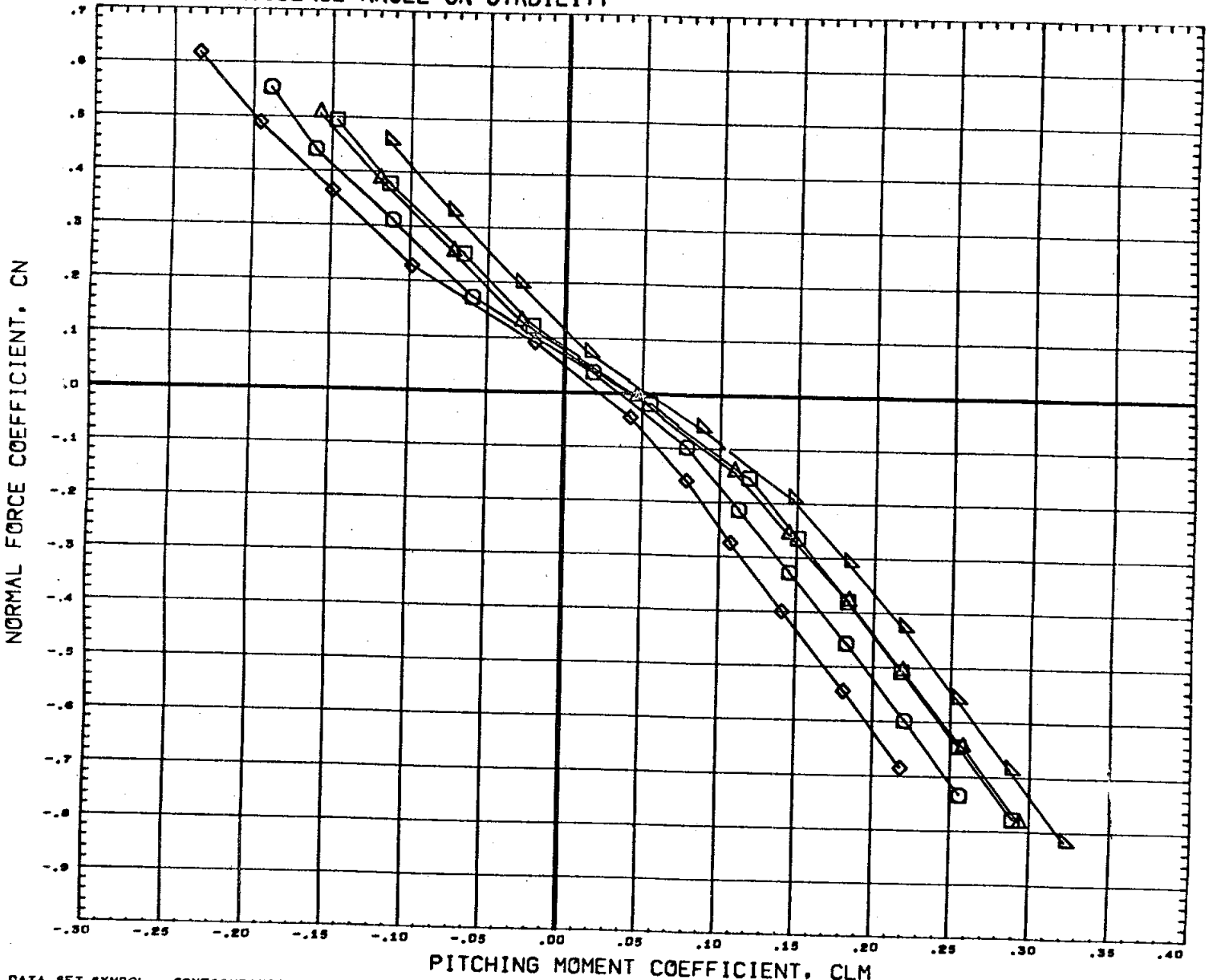
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON	REFERENCE INFORMATION		
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000	SREF	7.4190	SQ.IN.
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000	LREF	5.3120	IN.
(677023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	BREF	5.3120	IN.
(677016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000	XMRP	4.6200	IN.
(677020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000	YMRP	0.0000	IN.
(677022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	ZMRP	0.0000	IN.
							SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY



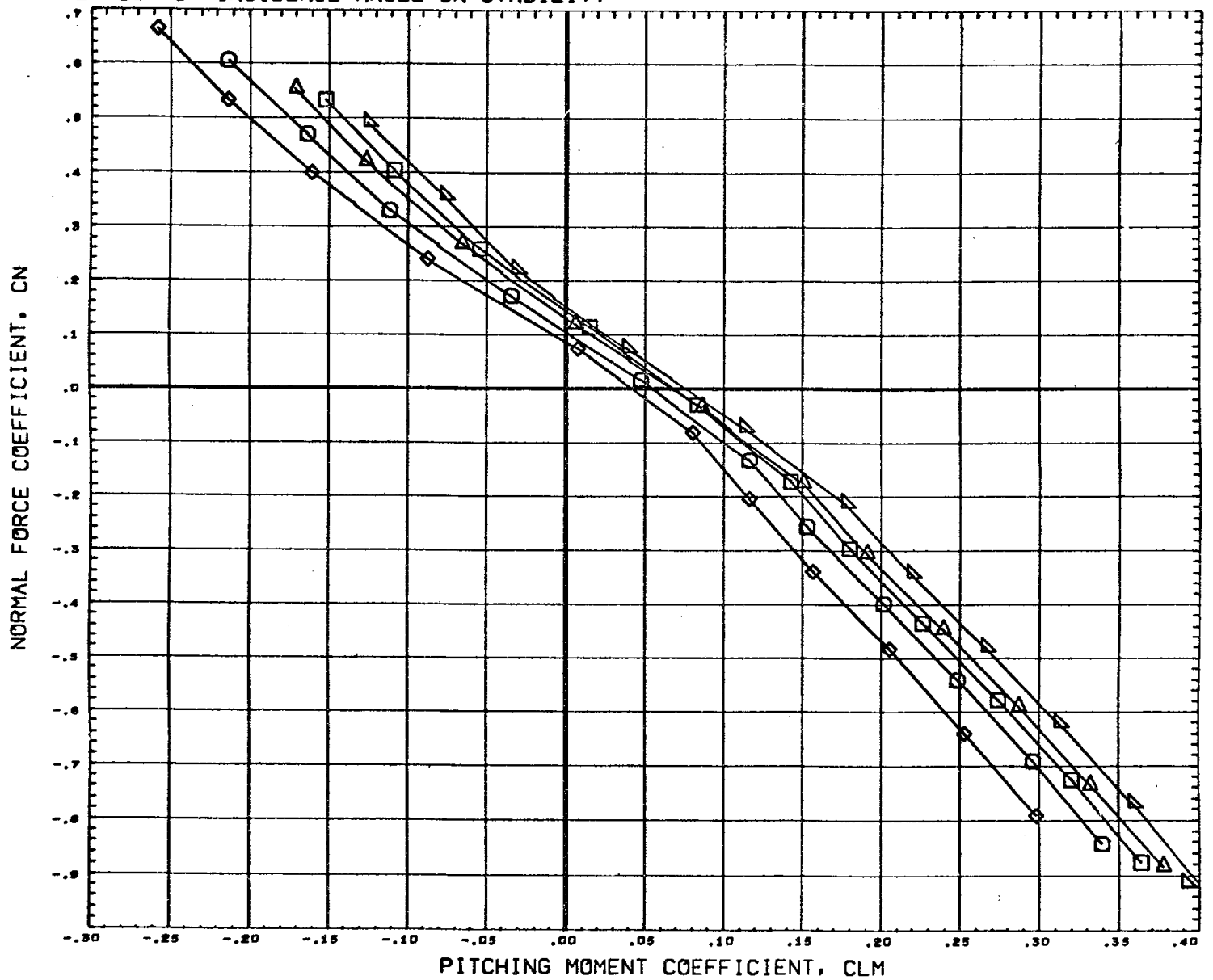
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	1.500	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY

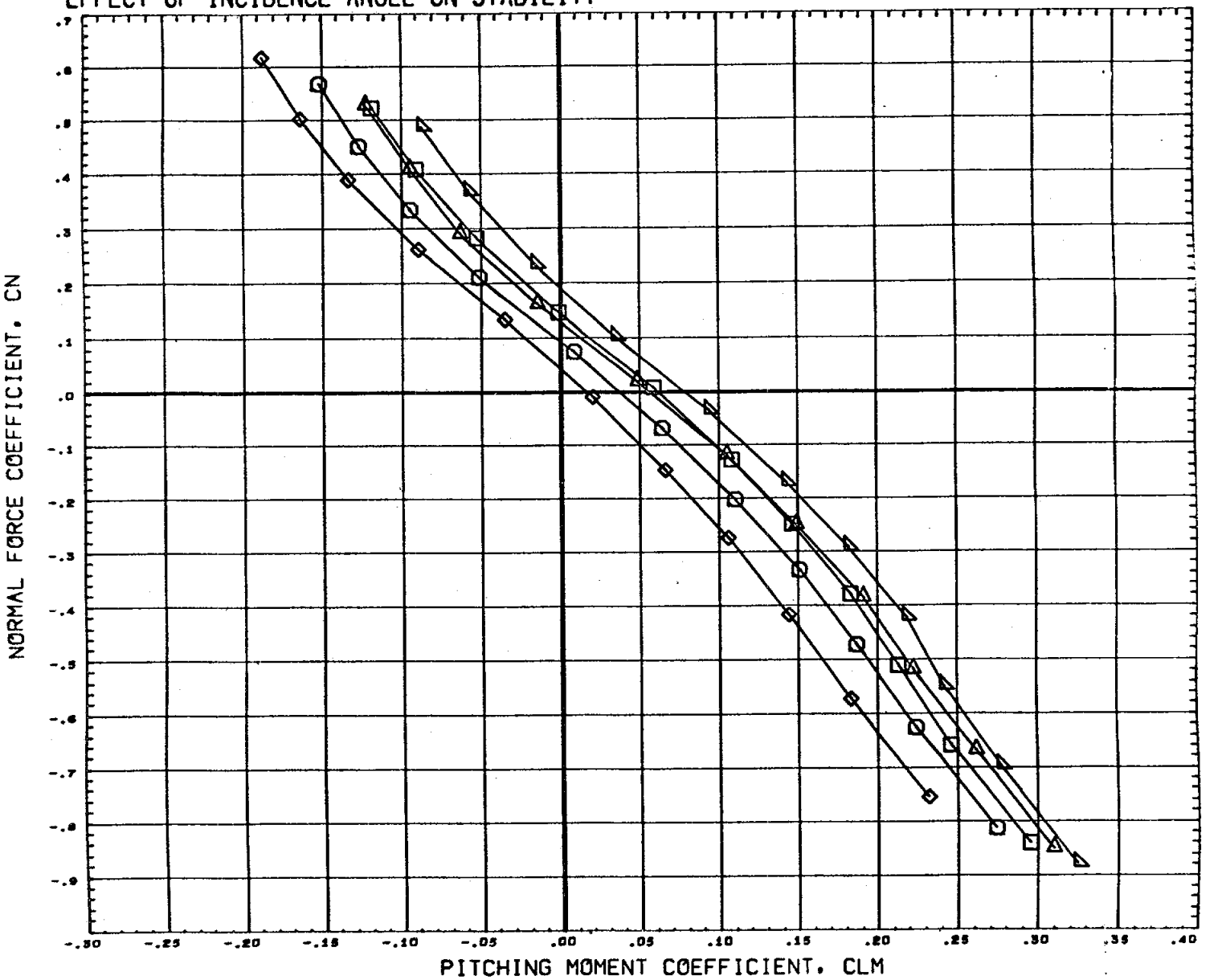


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(677020)	▷	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(677022)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY

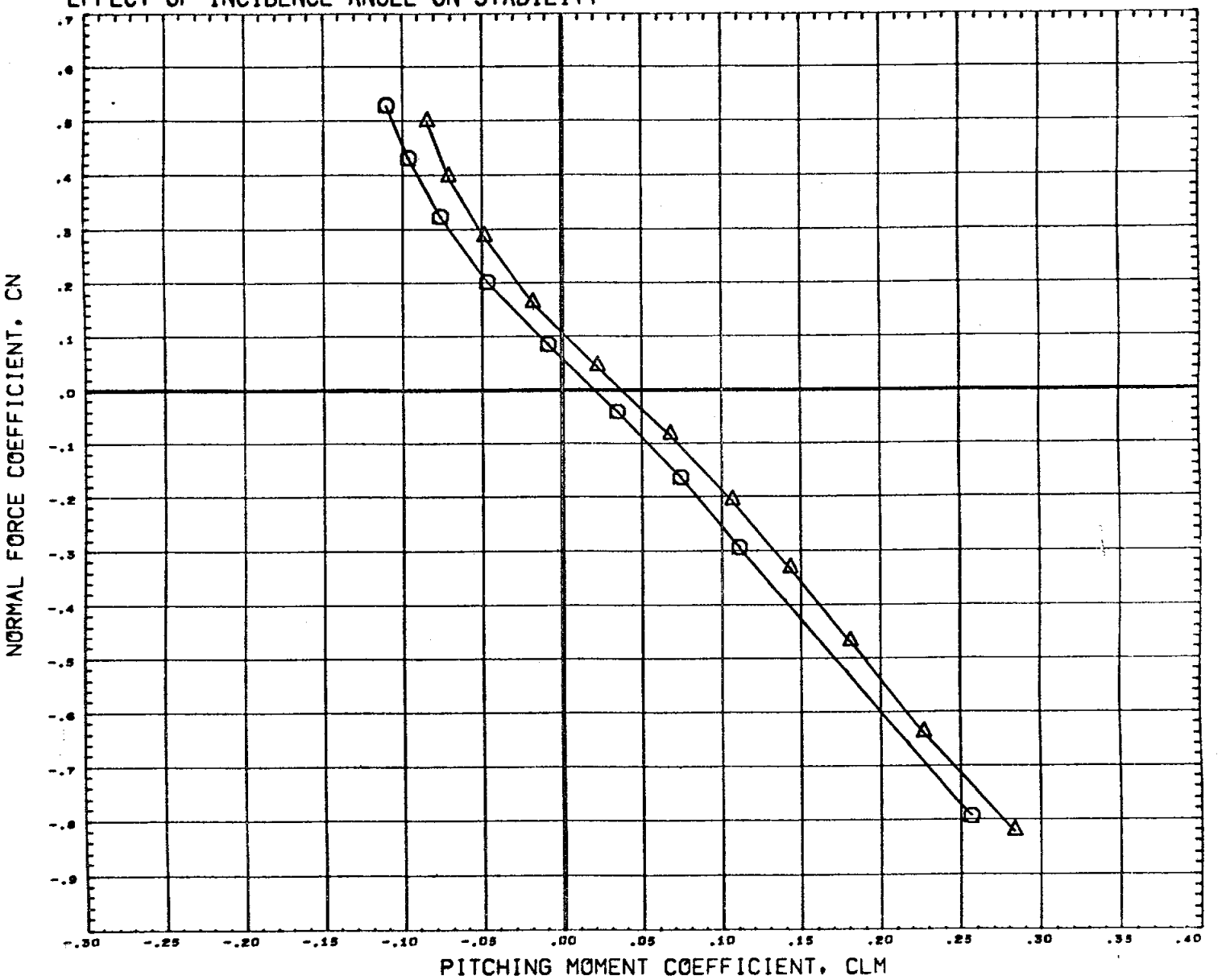


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77016)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(G77018)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)	▷	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY

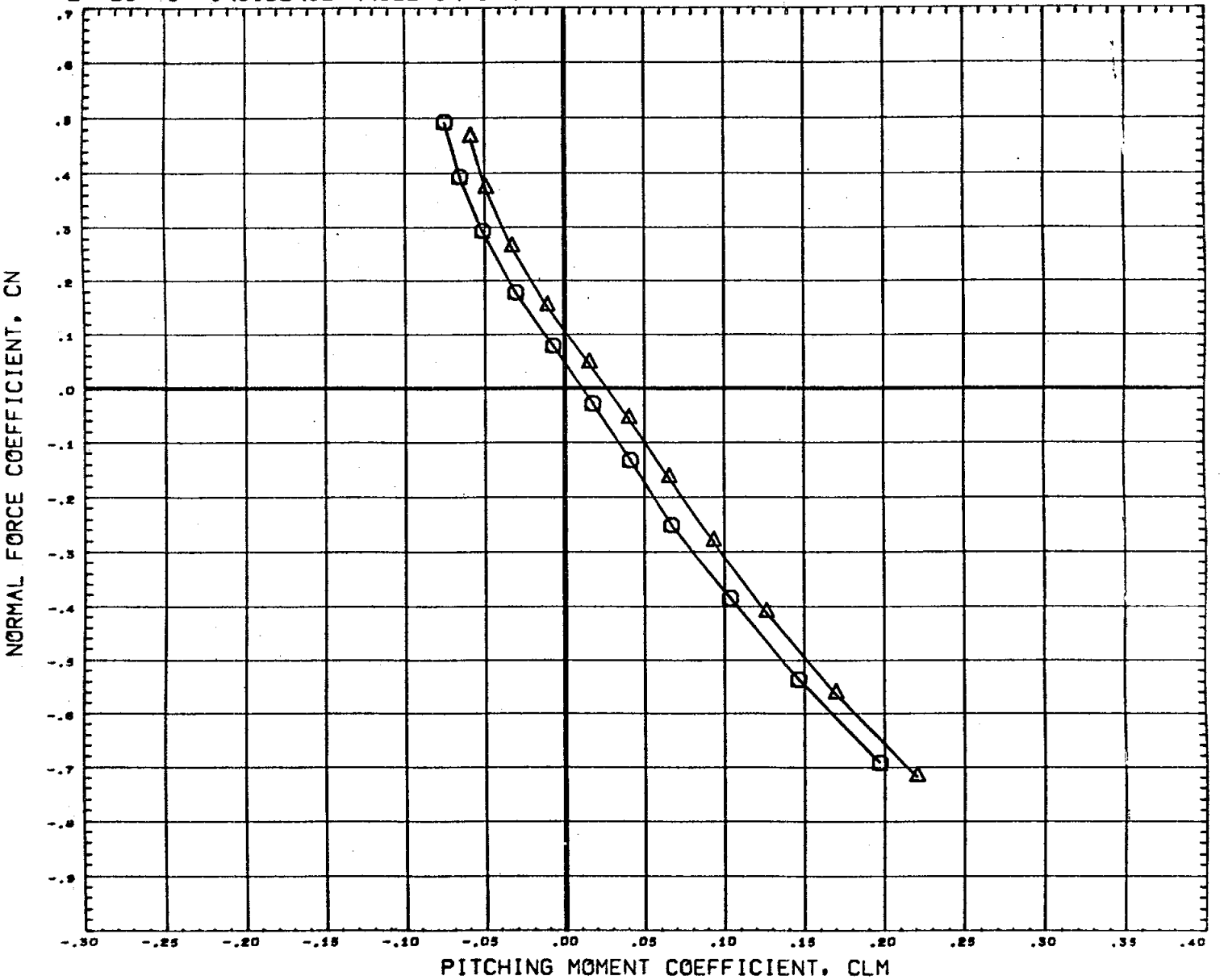


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

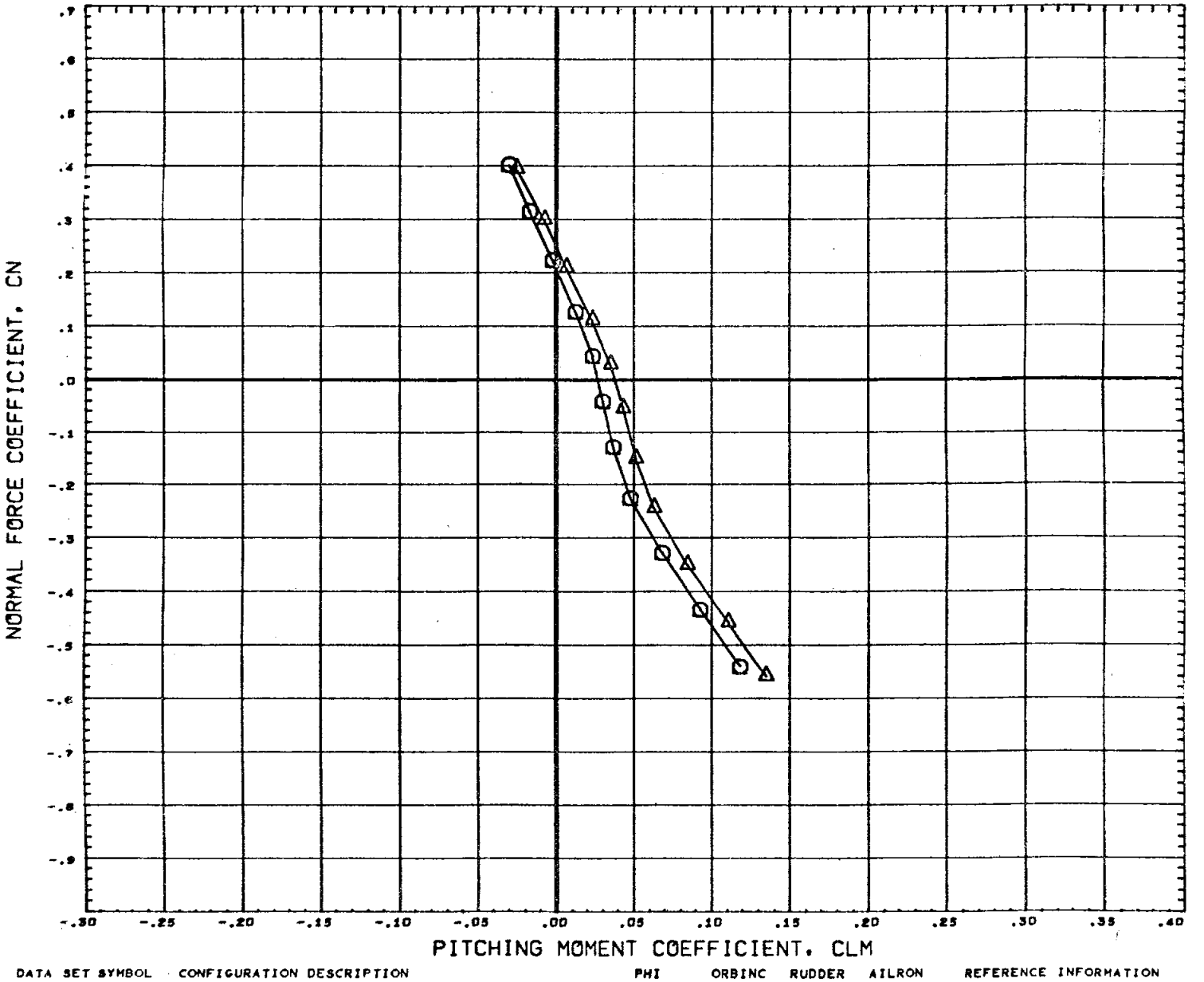
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON	REFERENCE INFORMATION		
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000	SREF	7.4190	SQ.IN.
(G77016)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000	LREF	5.3120	IN.
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	BREF	5.3120	IN.
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000	XMRP	4.8200	IN.
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000	YMRP	0.0000	IN.
(G77022)	◁	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000	ZMRP	0.0000	IN.
							SCALE	0.0040	

MACH 1.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

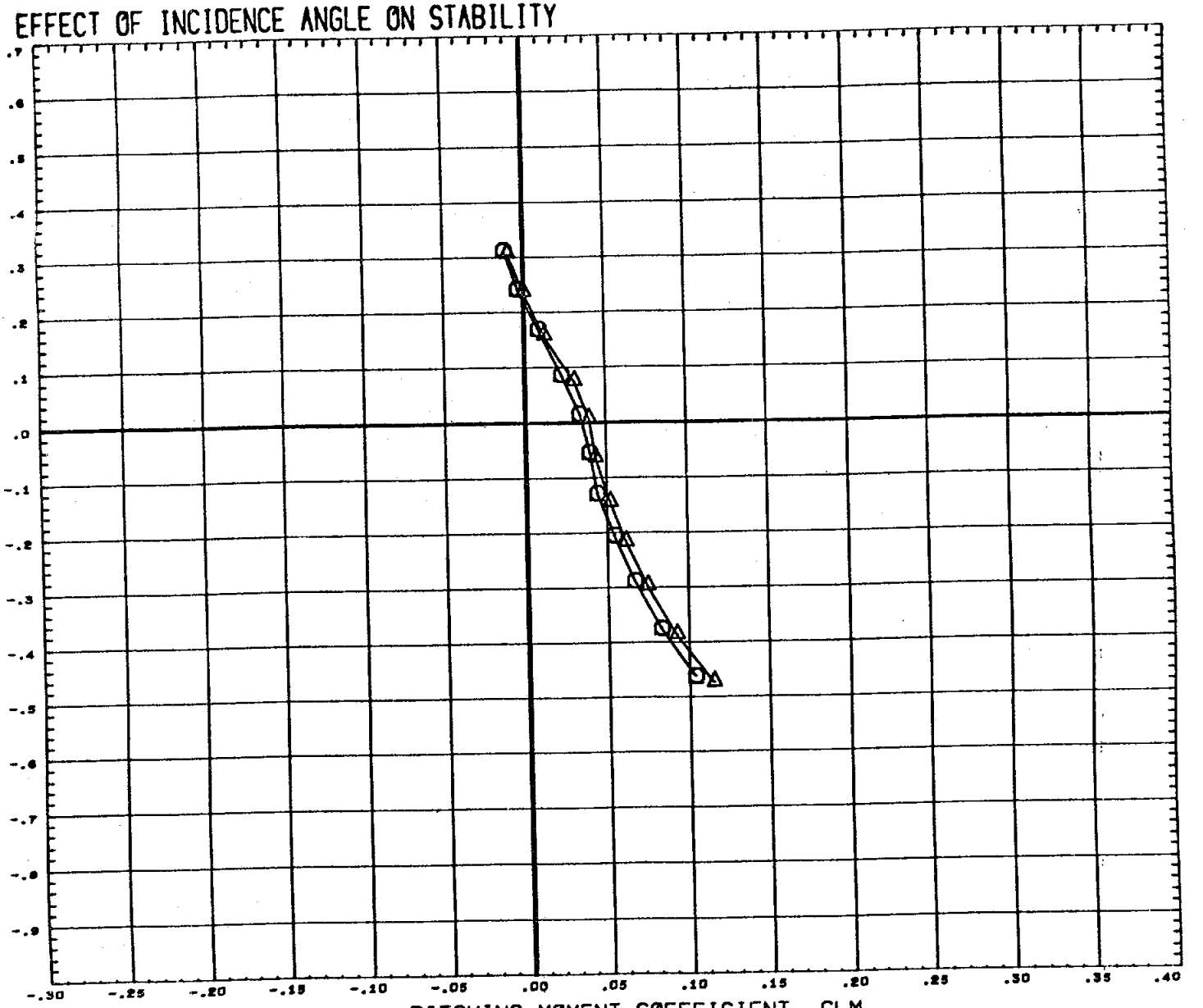


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)	◁	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY



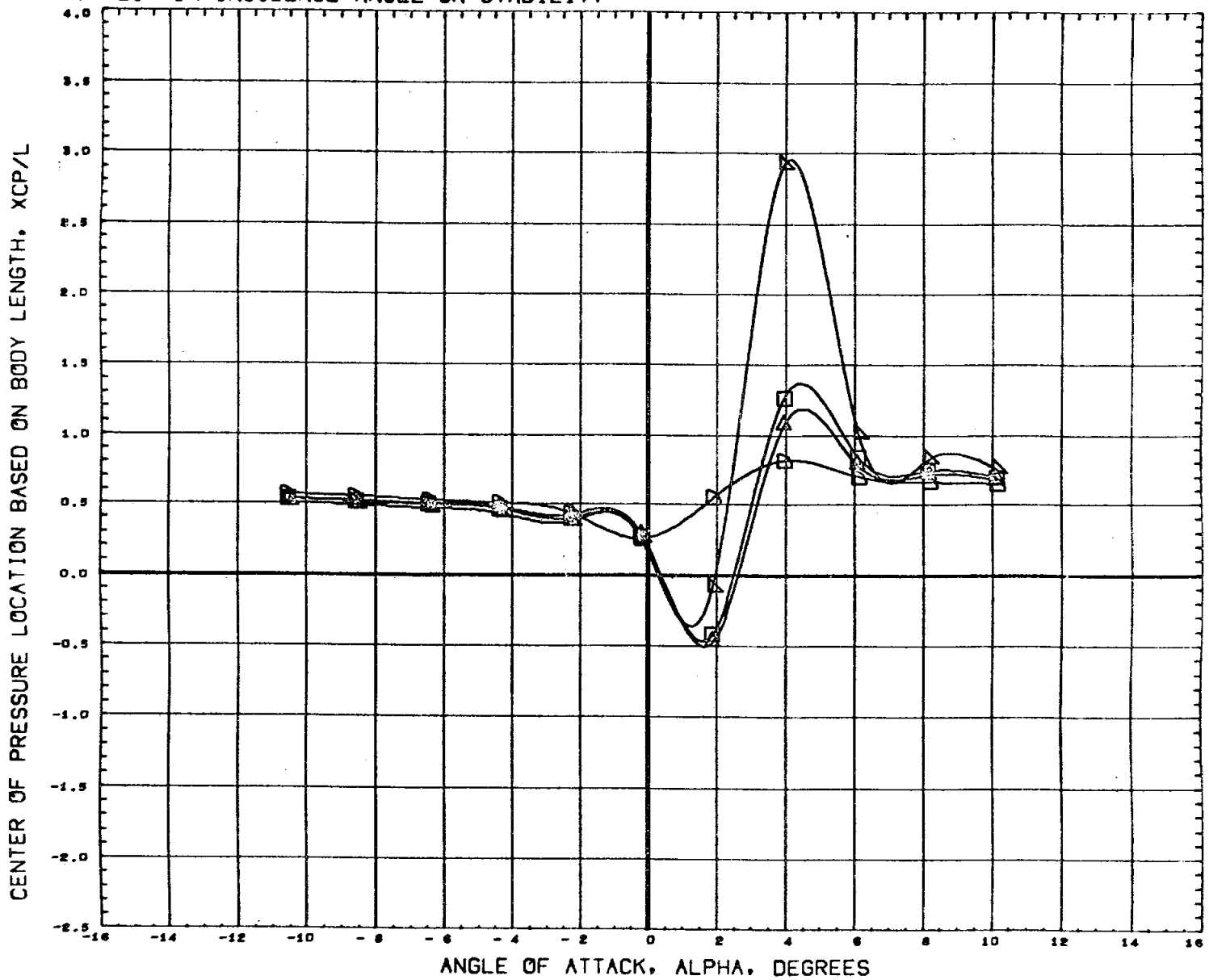
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677020)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

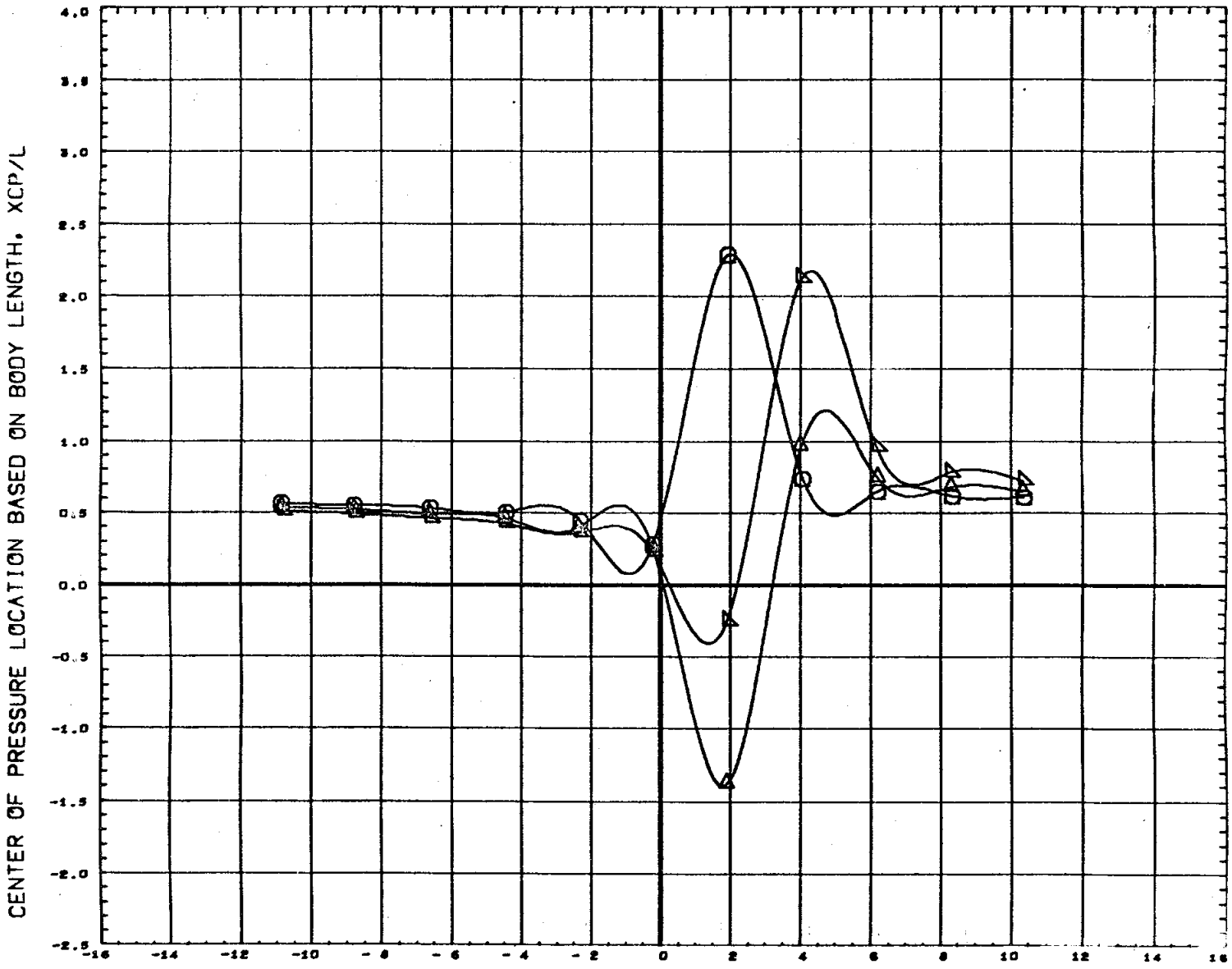


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(G77020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY

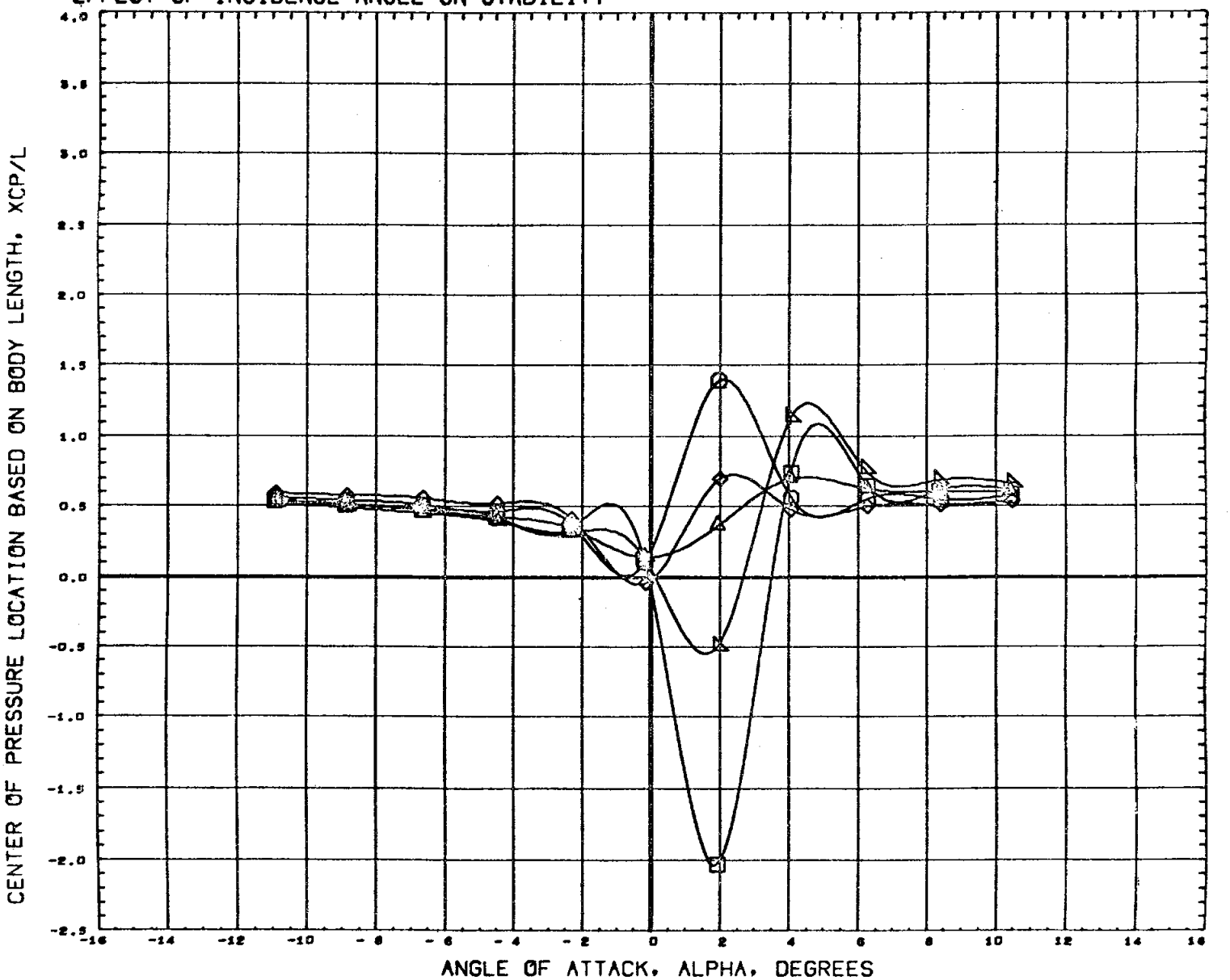


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(677016)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000
(677016)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

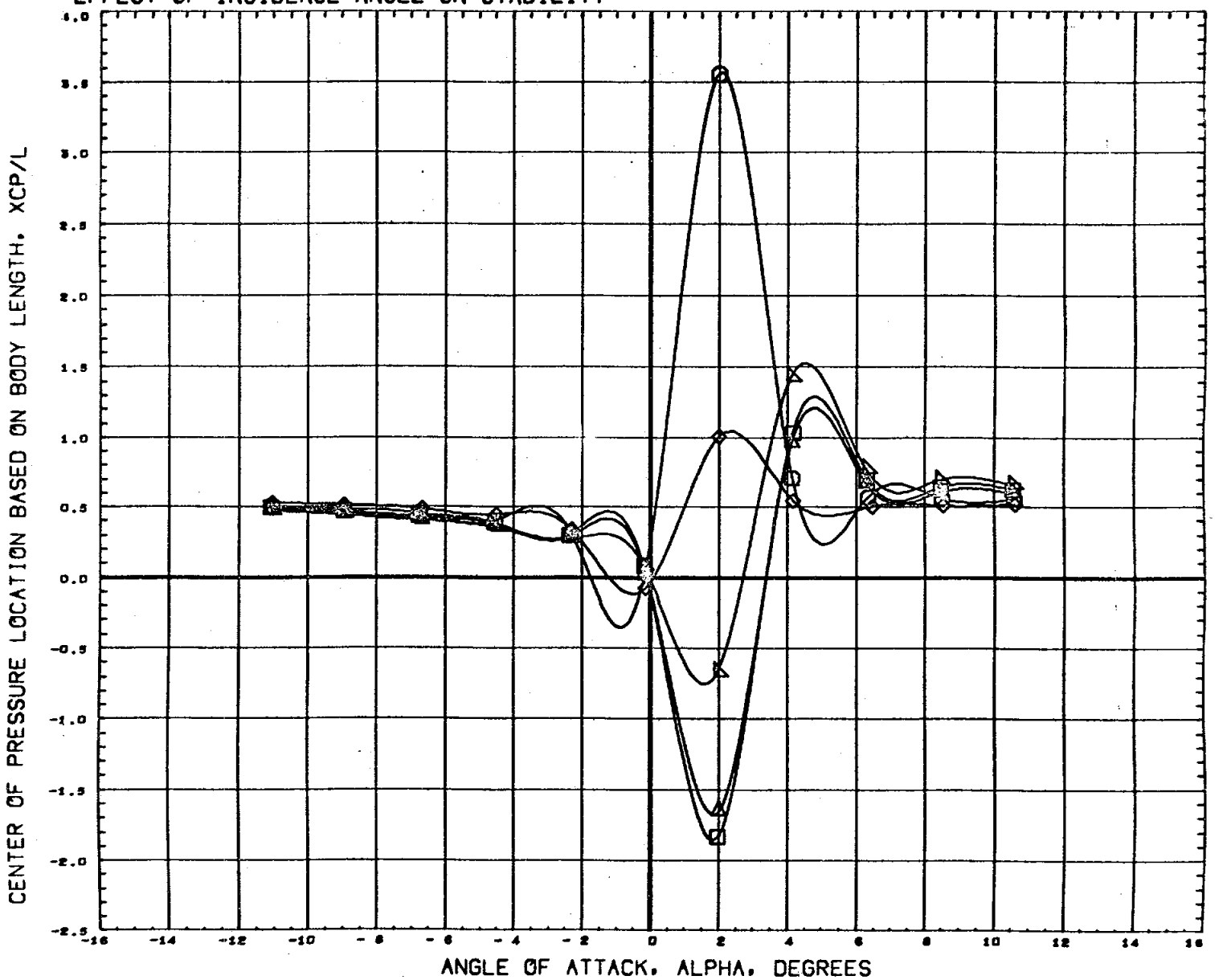
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON	REFERENCE INFORMATION		
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000	SREF	7.4190	SQ.IN.
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000	LREF	5.3120	IN.
(G77023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	1.500	0.000	0.000	BREF	5.3120	IN.
(G77016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000	XMRP	4.8200	IN.
(G77020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000	YMRP	0.0000	IN.
(G77022)	◁	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000	ZMRP	0.0000	IN.
							SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY

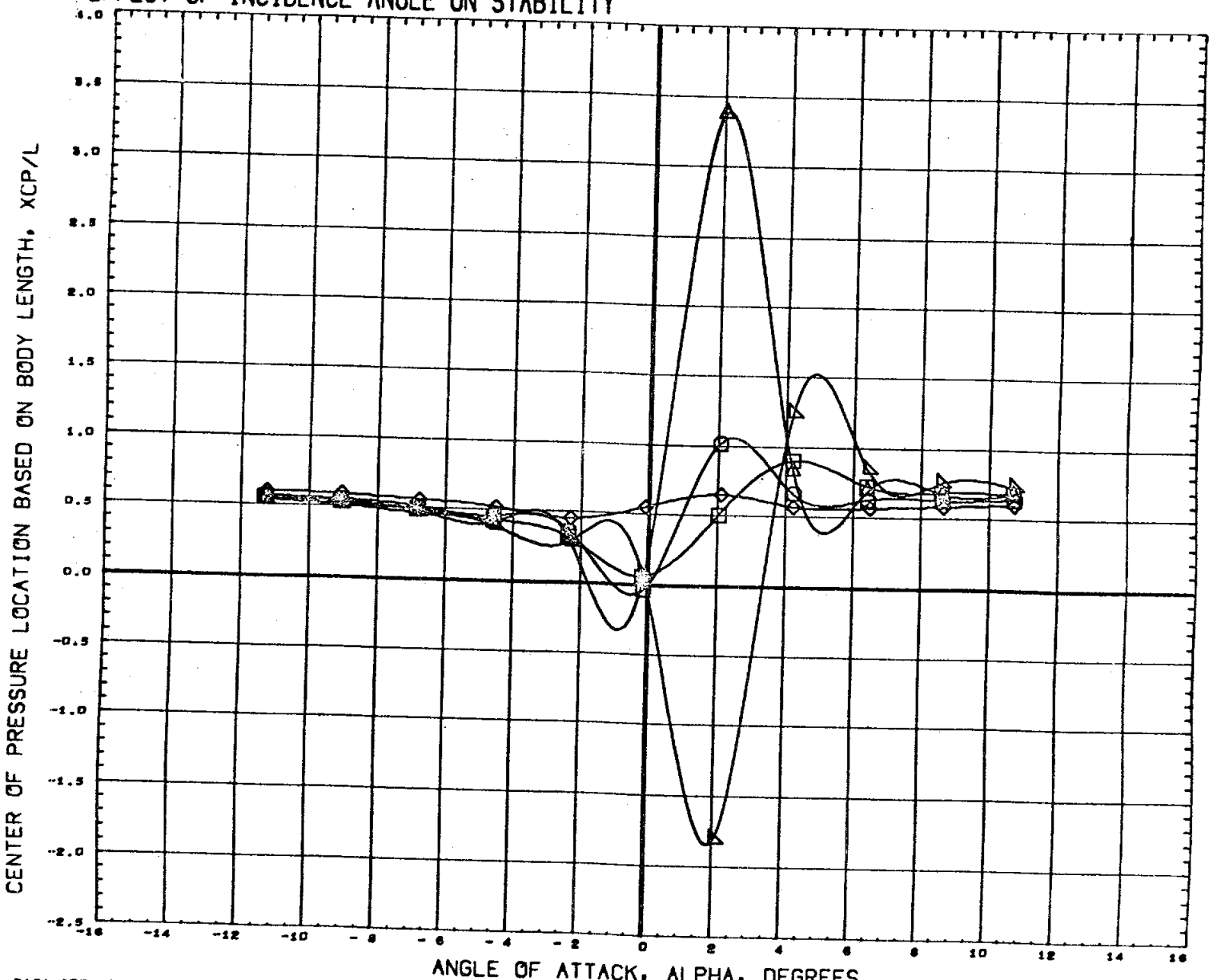


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(677023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	1.500	0.000	0.000
(677016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY



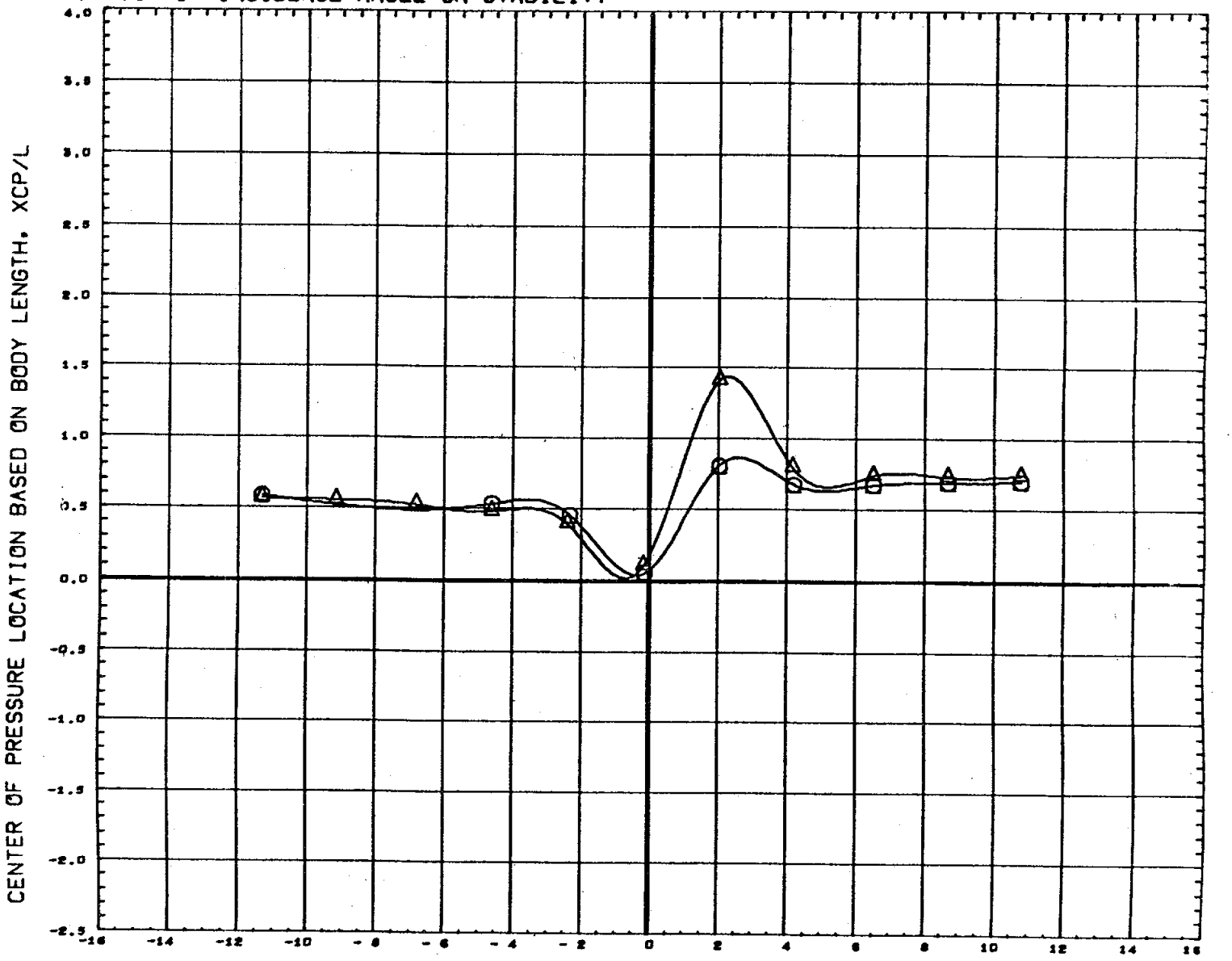
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



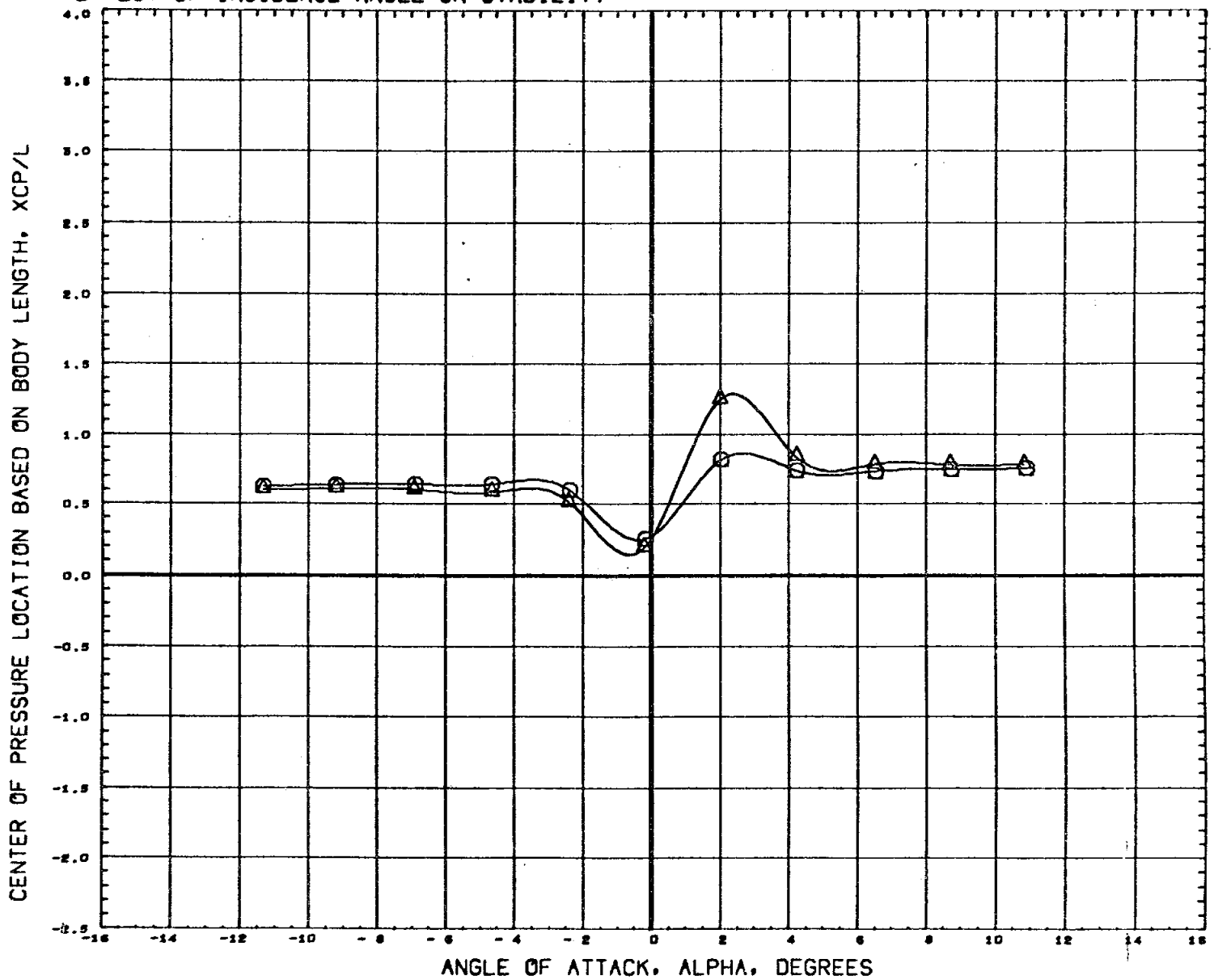
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77020)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

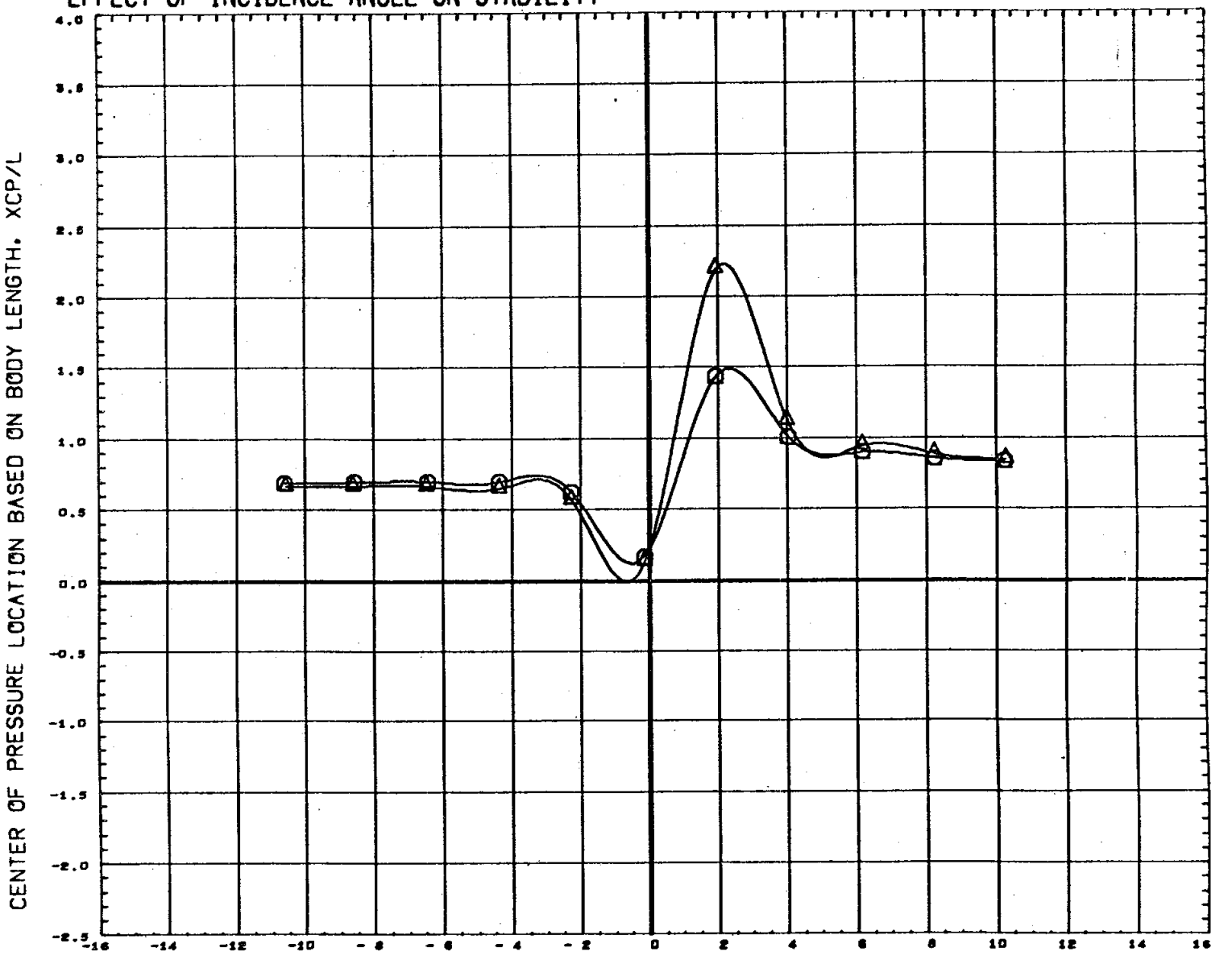
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON	REFERENCE INFORMATION		
(G77014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000	SREF	7.4190	SQ.IN.
(G77018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000	LREF	5.3120	IN.
(G77023)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000	BREF	5.3120	IN.
(G77016)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000	XMRP	4.8200	IN.
(G77020)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	0.000	YMRP	0.0000	IN.
(G77022)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000	ZMRP	0.0000	IN.
							SCALE	0.0040	

MACH 1.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

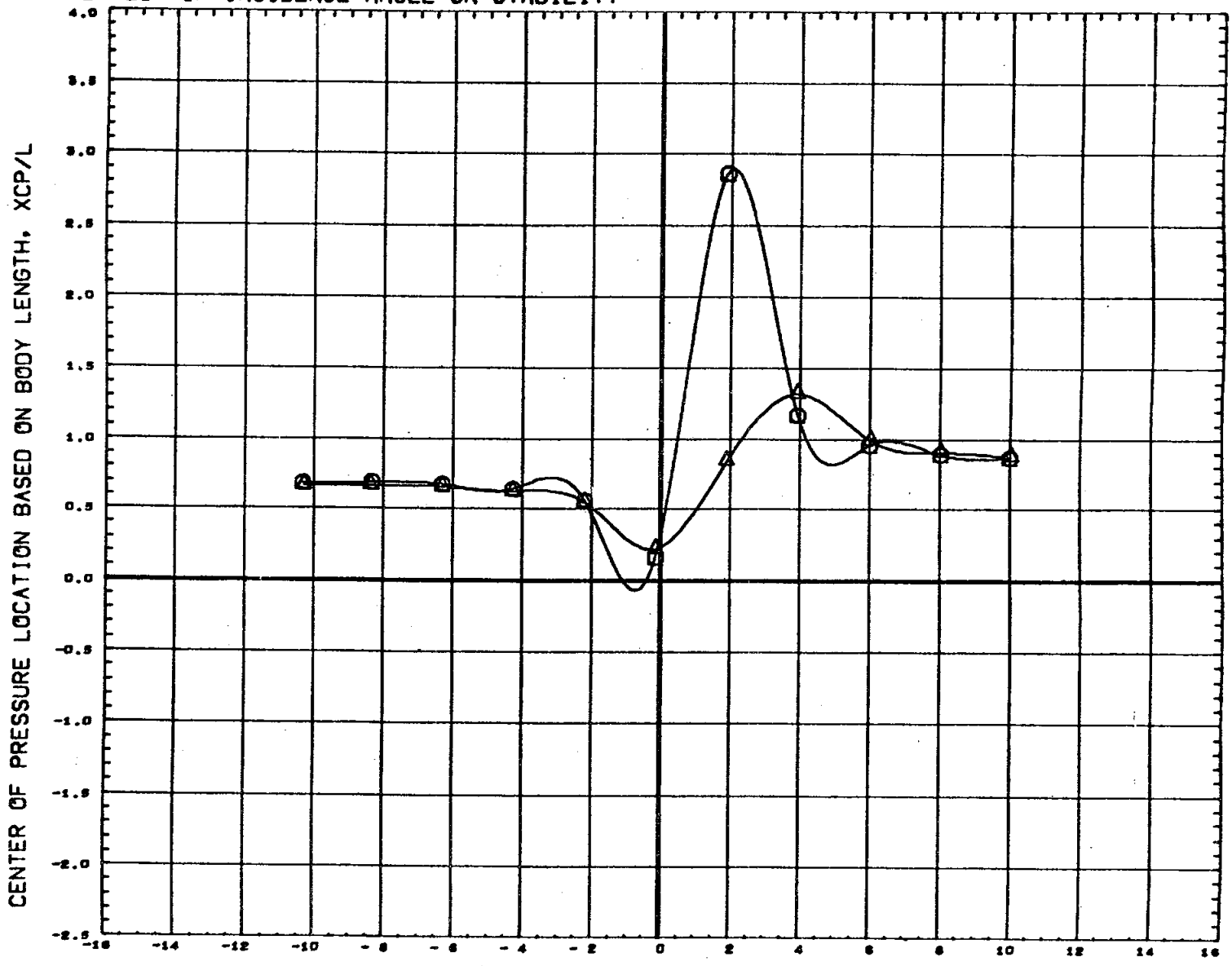


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(G77020)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY

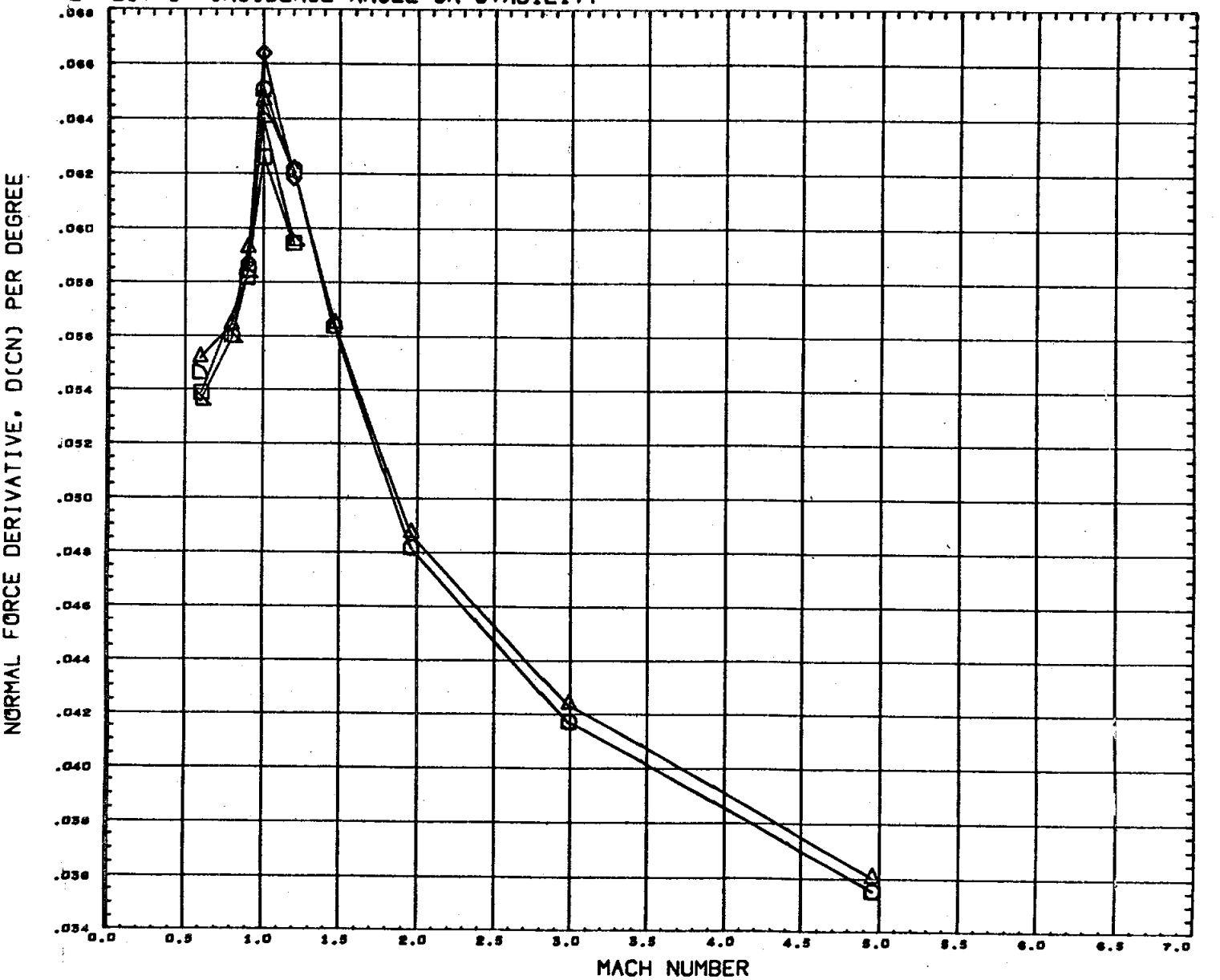


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(G77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(G77023)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000
(G77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(G77020)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	0.000
(G77022)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

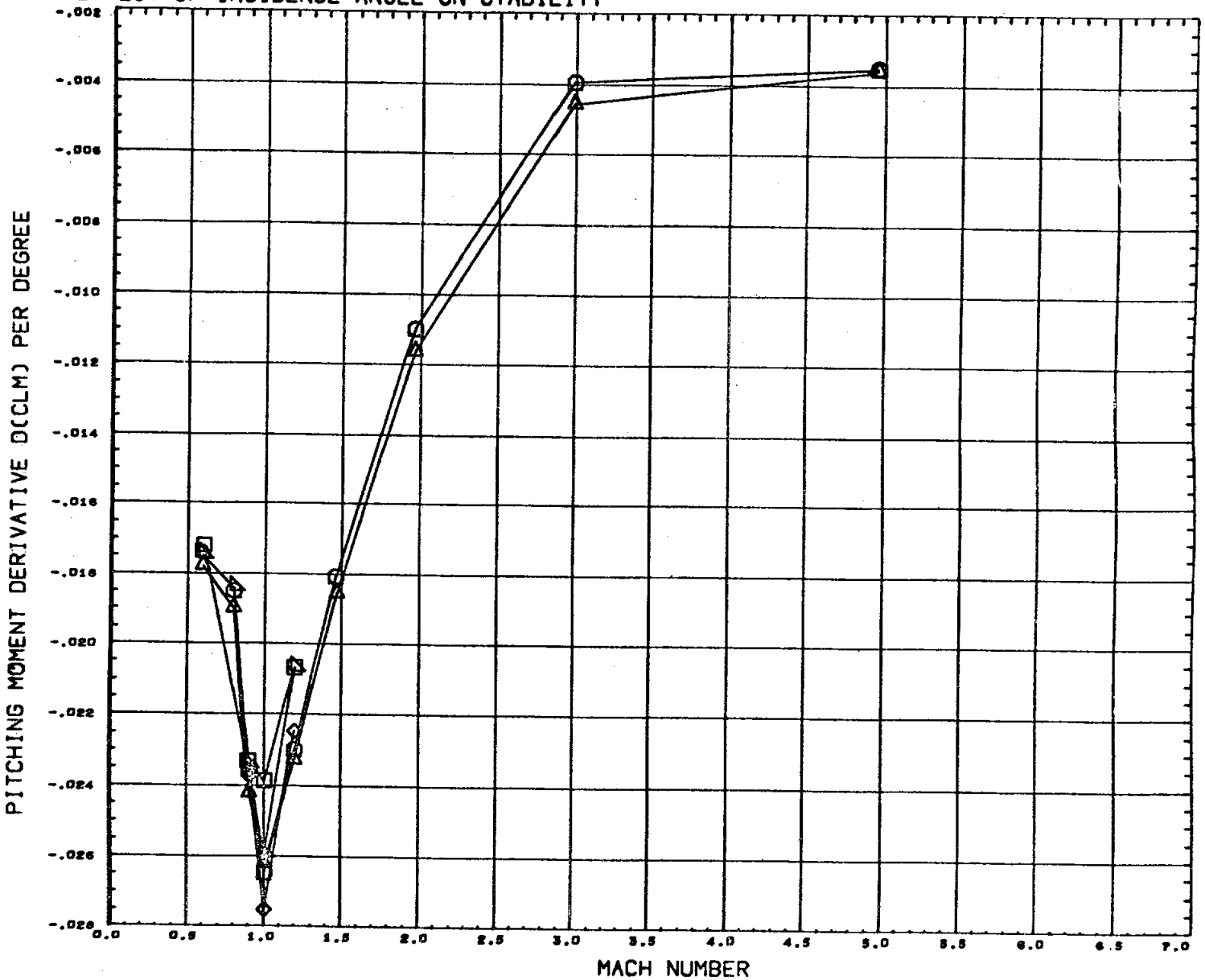


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77014)	◇	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(G77018)	◇	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(G77023)	◇	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(G77016)	□	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(G77020)	□	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(G77022)	□	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY

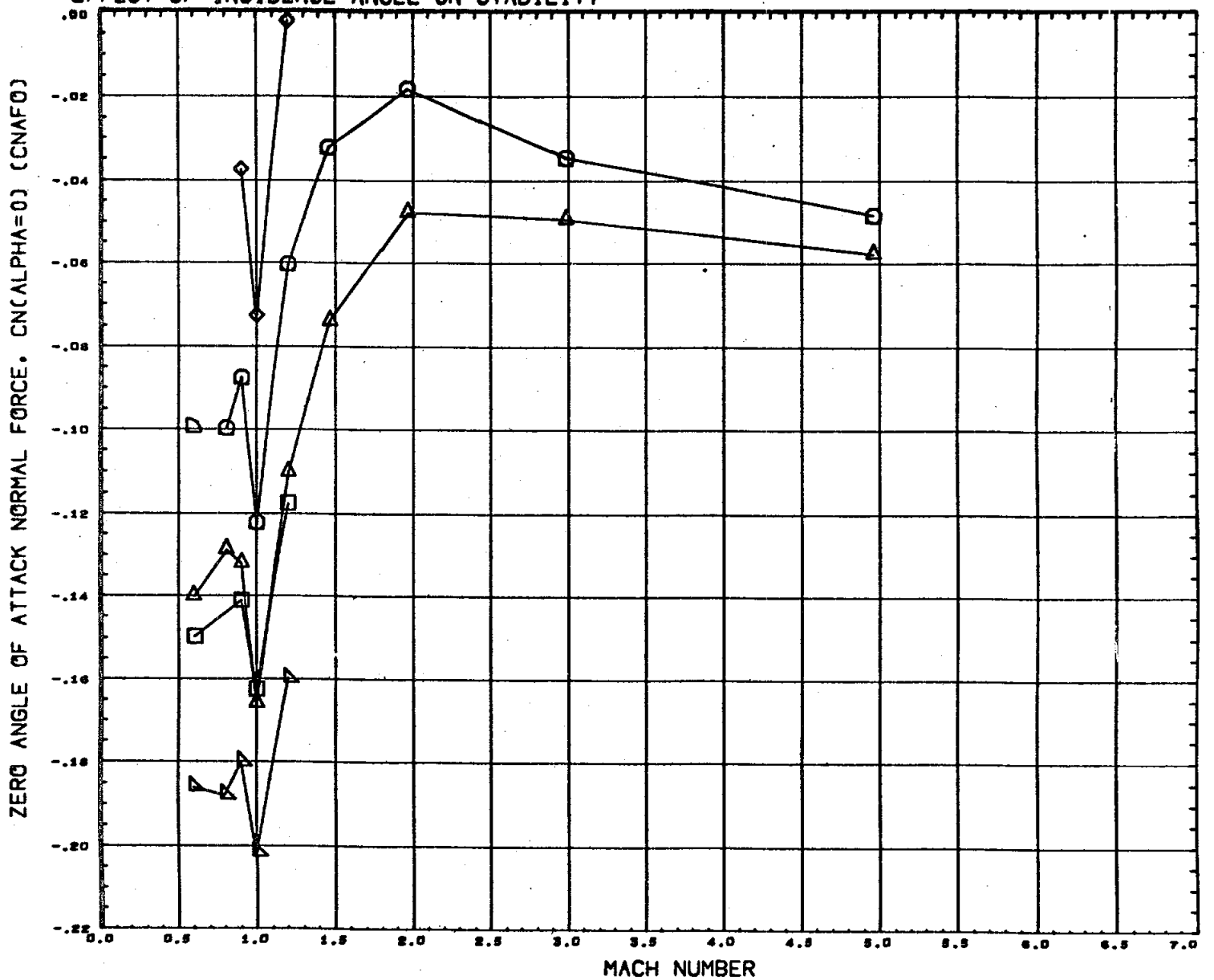


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(677018)		M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(677025)		M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(677016)		M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(677020)		M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(677022)		M556(IA1) NAR ATP BL LV (O2) (T1) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY

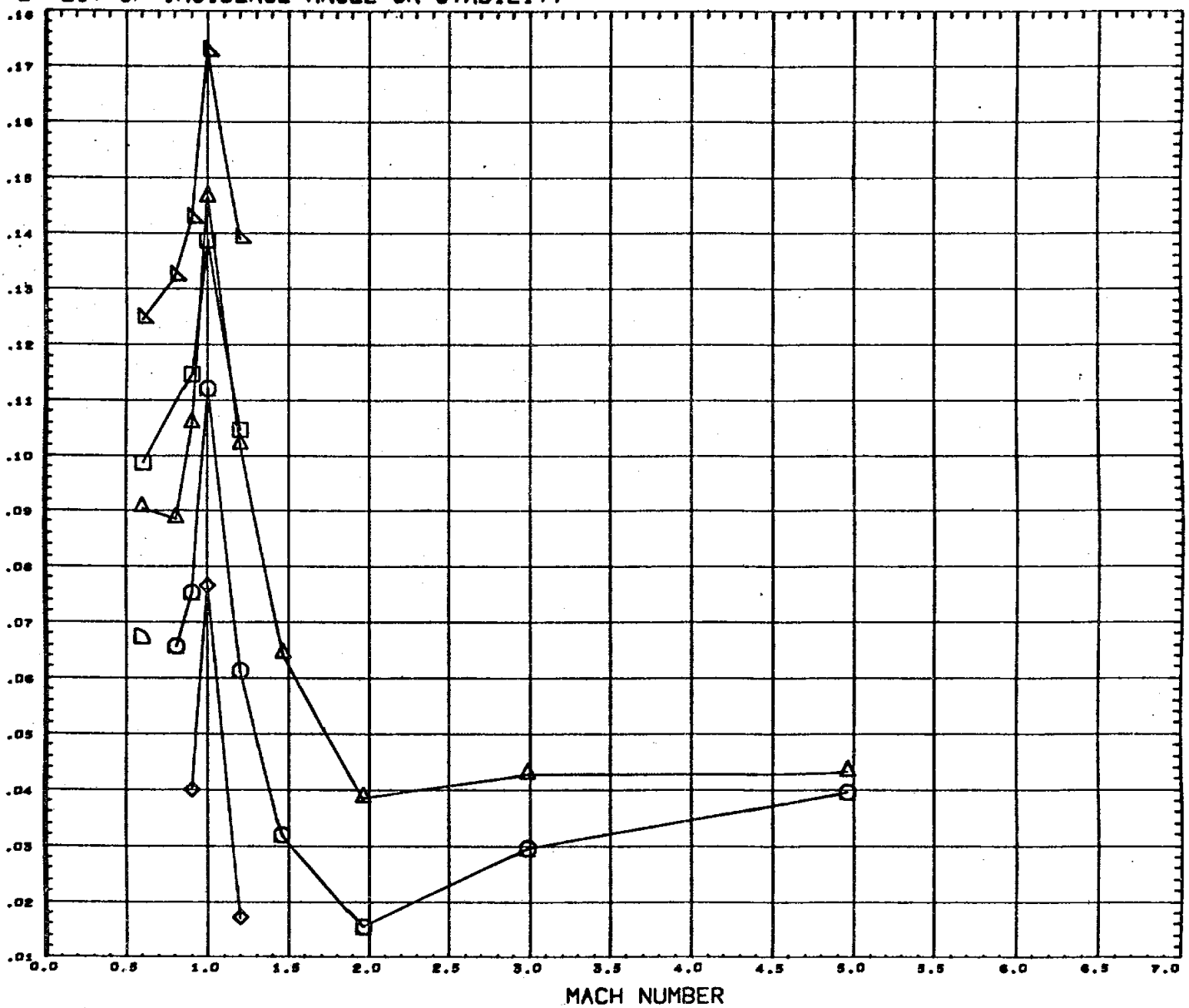


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677022)	▷	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

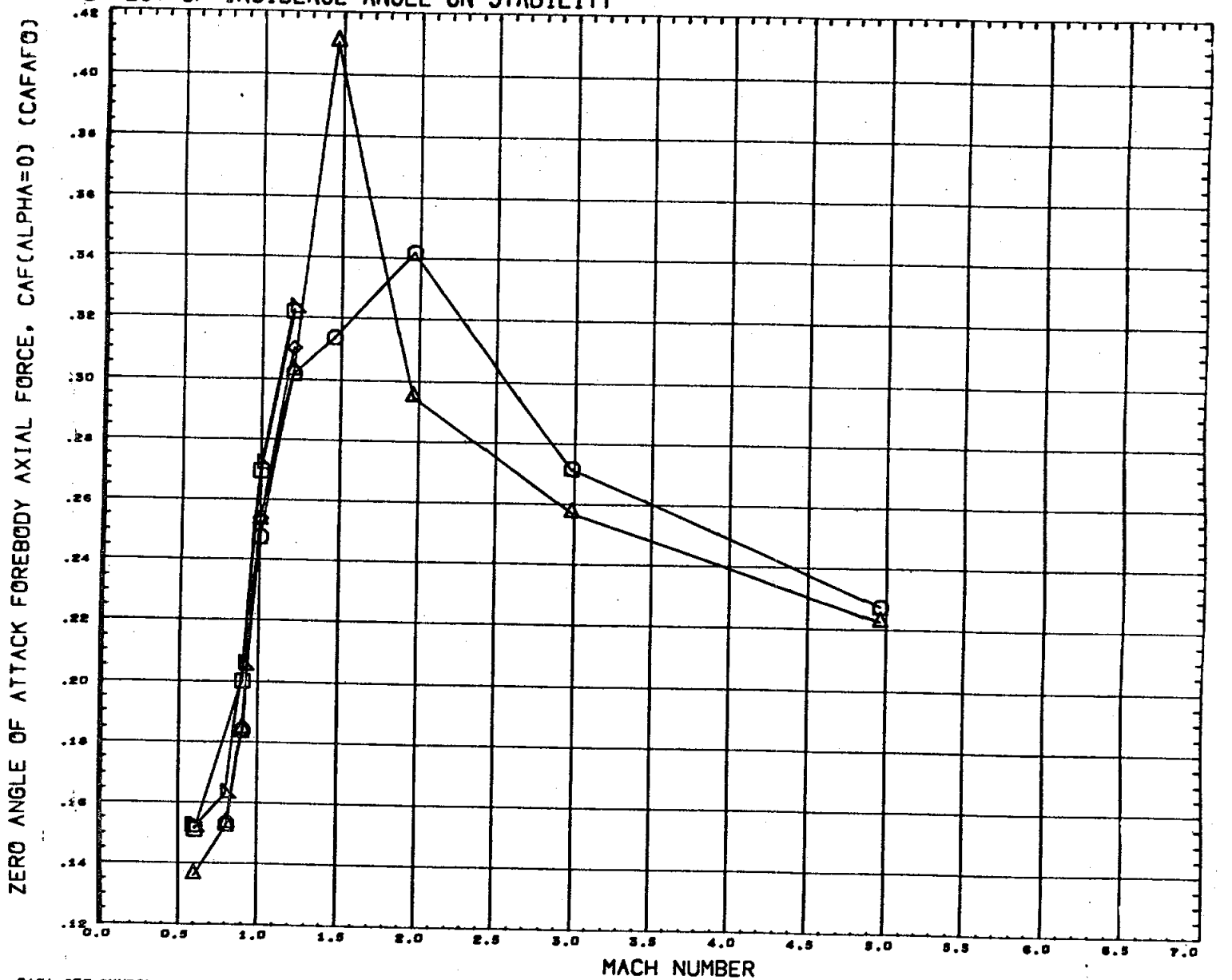
EFFECT OF INCIDENCE ANGLE ON STABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677014)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(677016)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(677023)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	1.500	0.000	0.000
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000
(677020)	▽	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(677022)	▷	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY

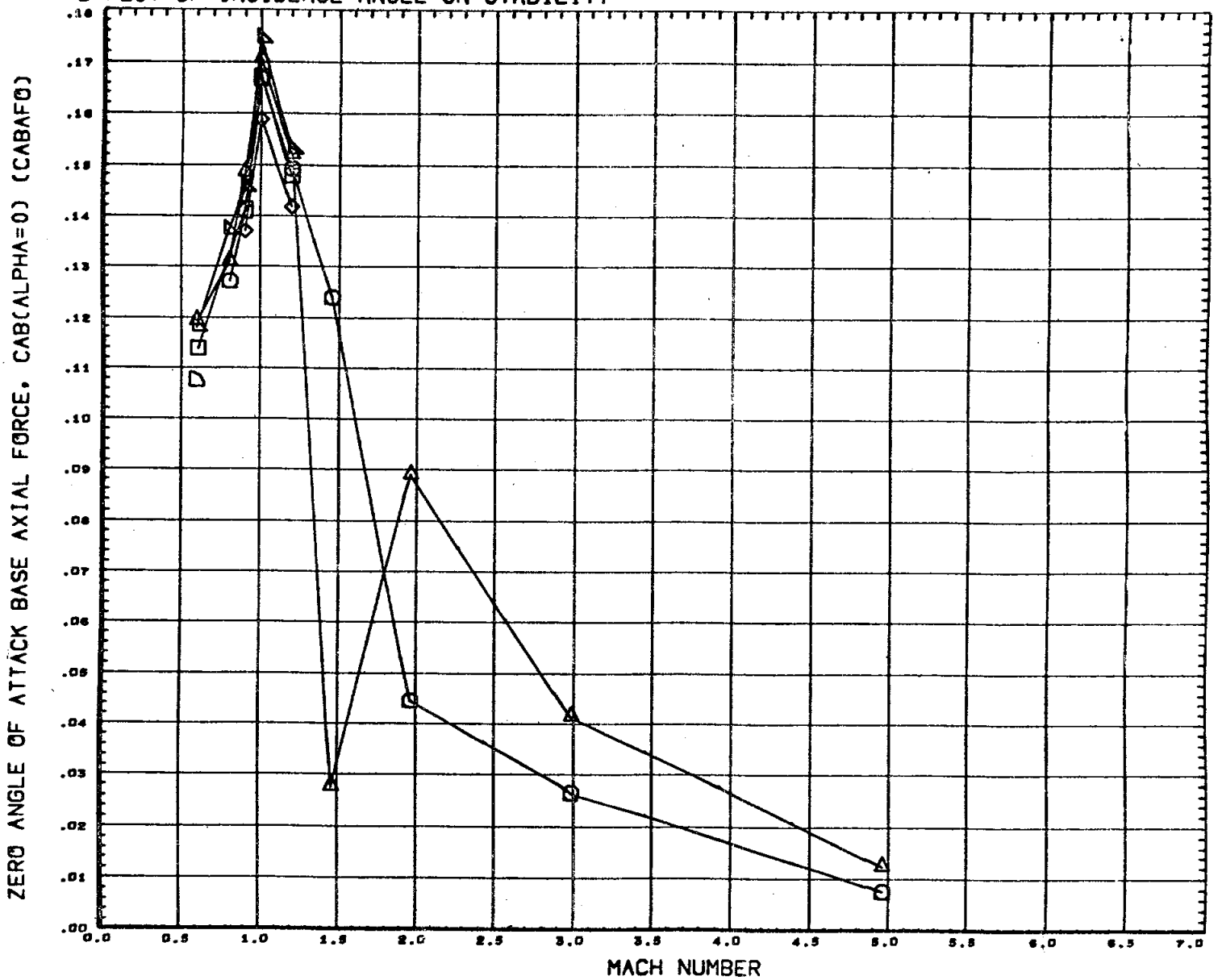


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(677018)		M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(677023)		M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(677016)		M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(677020)		M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(677022)		M556(IA1) NAR ATP BL LV (O2) (T1) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY

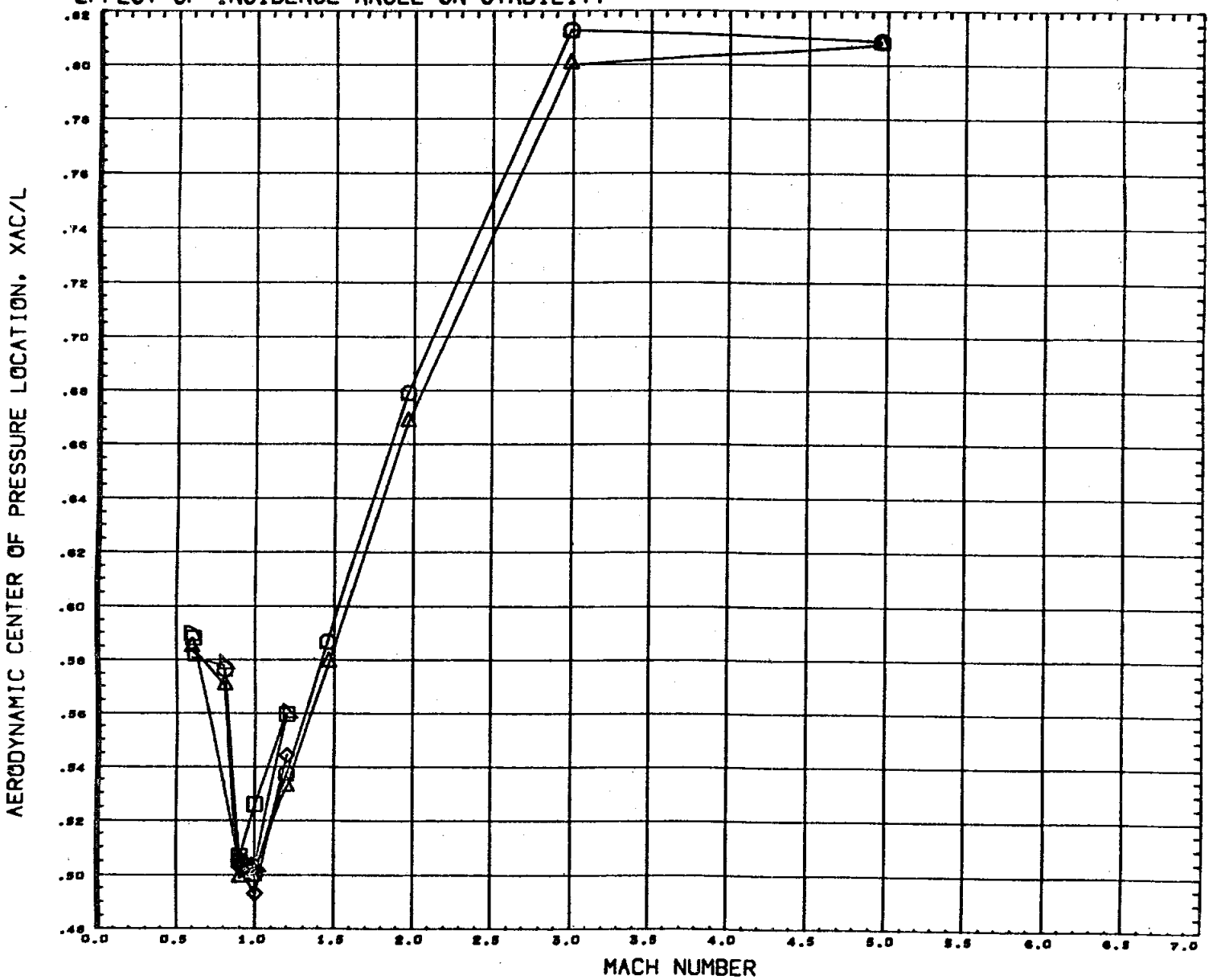


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)	D	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677018)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677025)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677016)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677020)	◁	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677022)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY

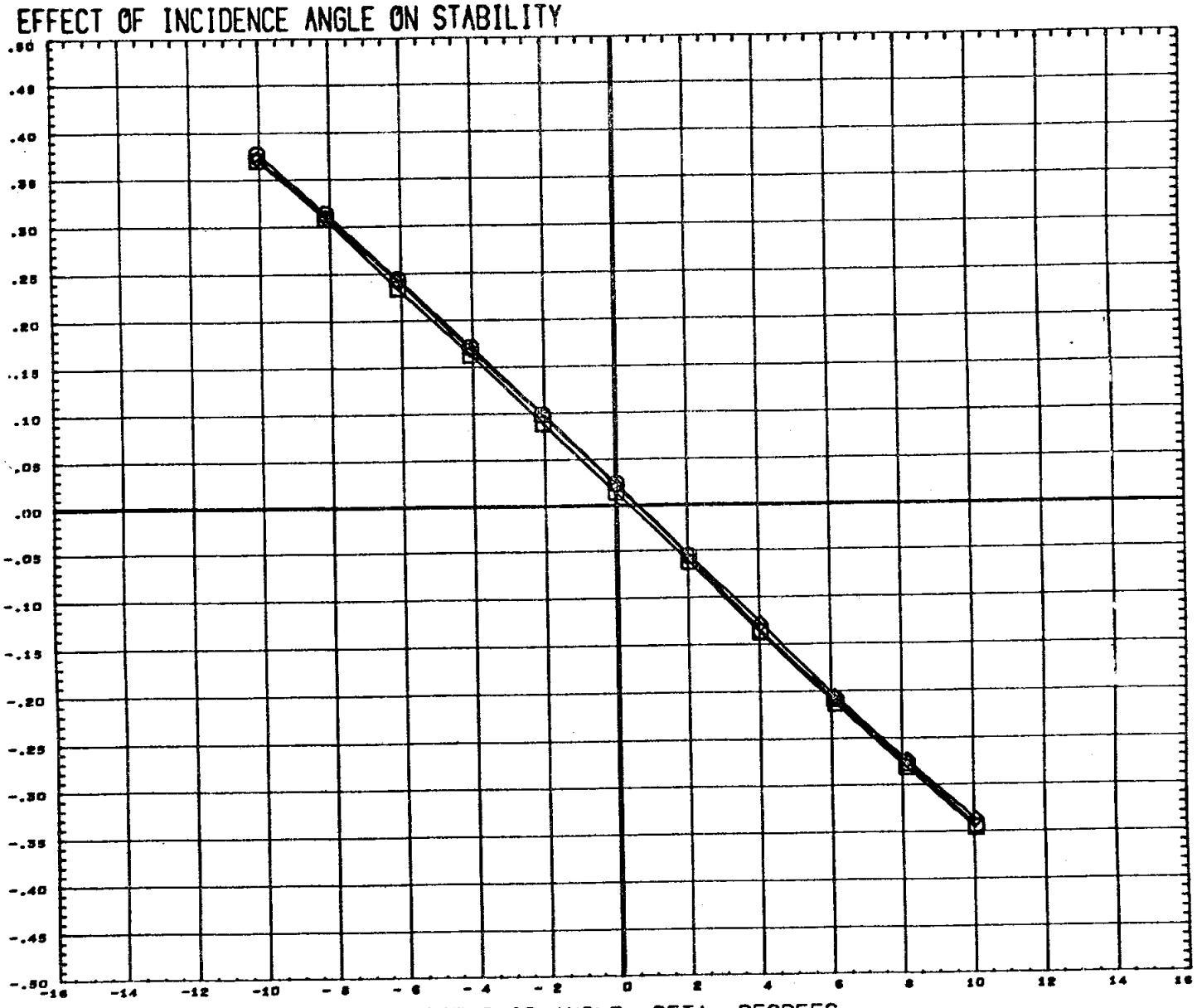


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677015)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677023)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(677016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677020)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(677022)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	1.500	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY



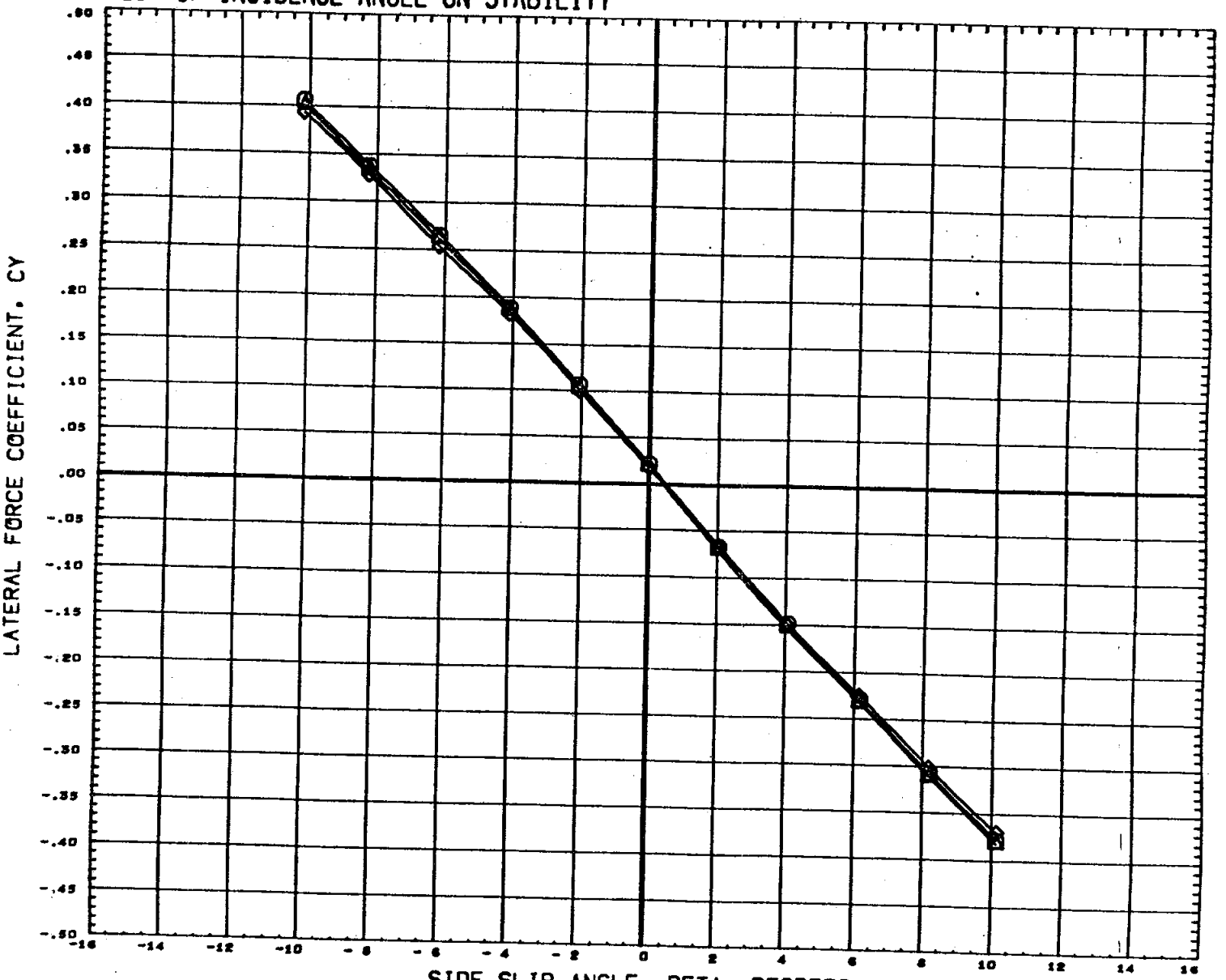
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77021)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY



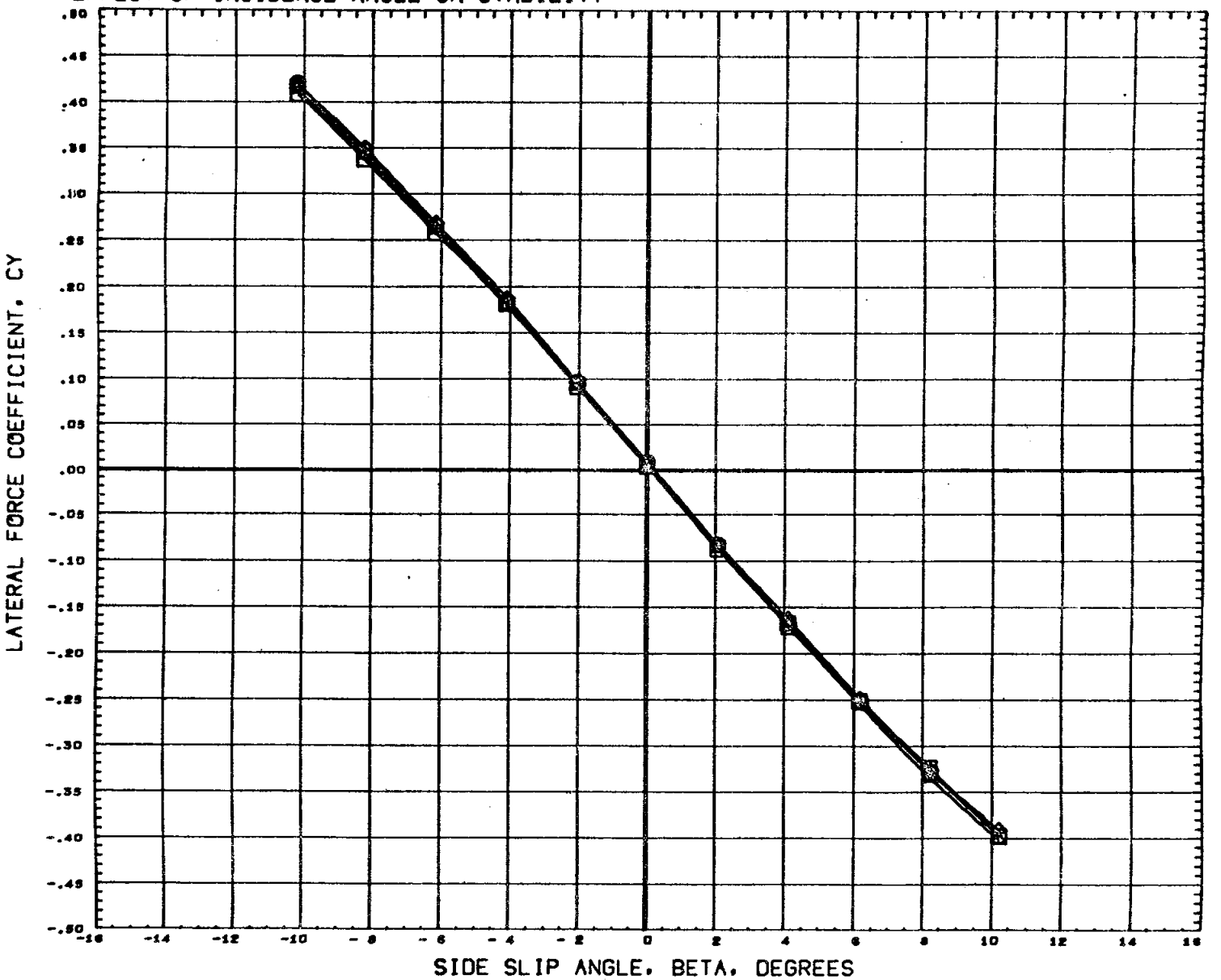
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY

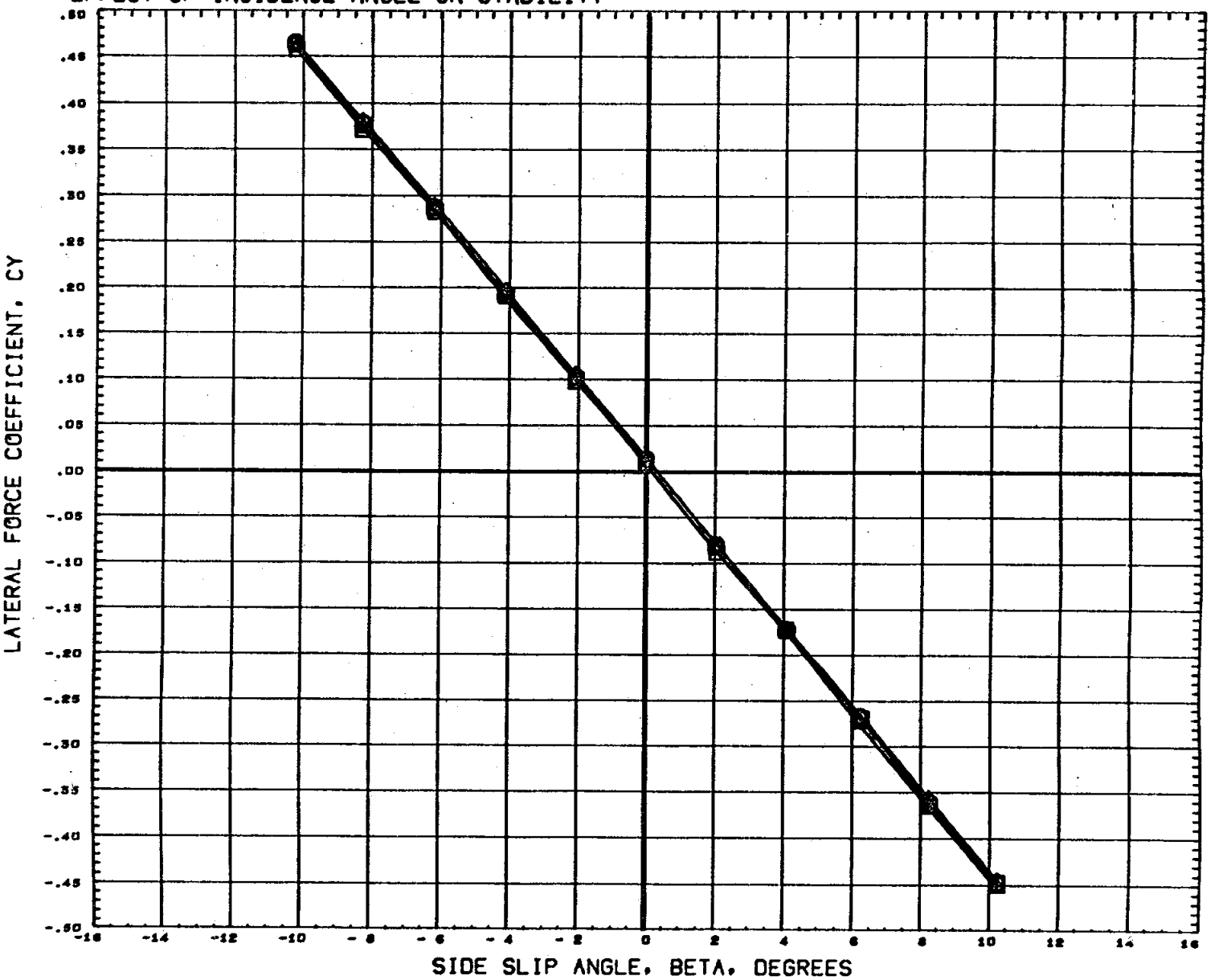


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY

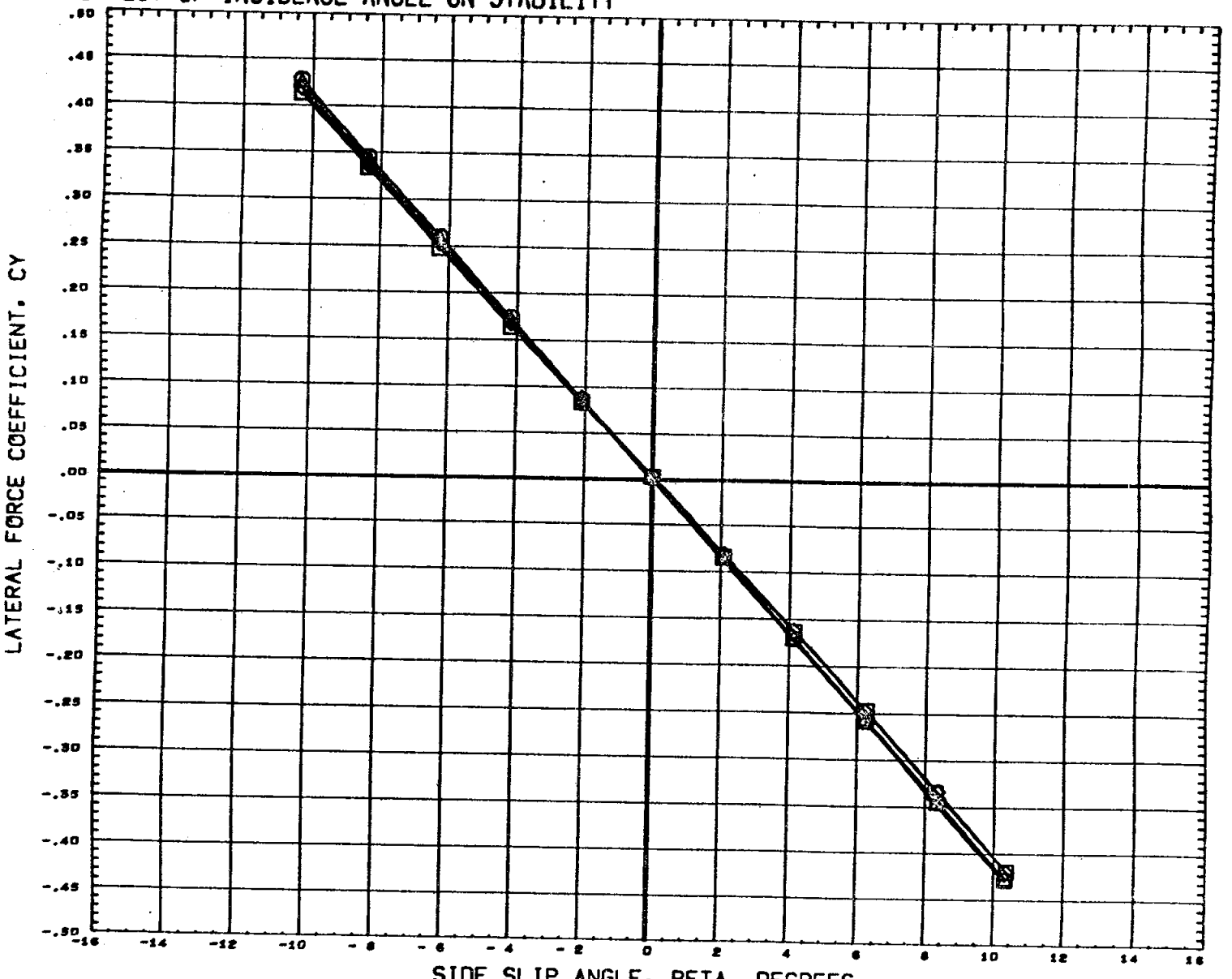


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.9200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY



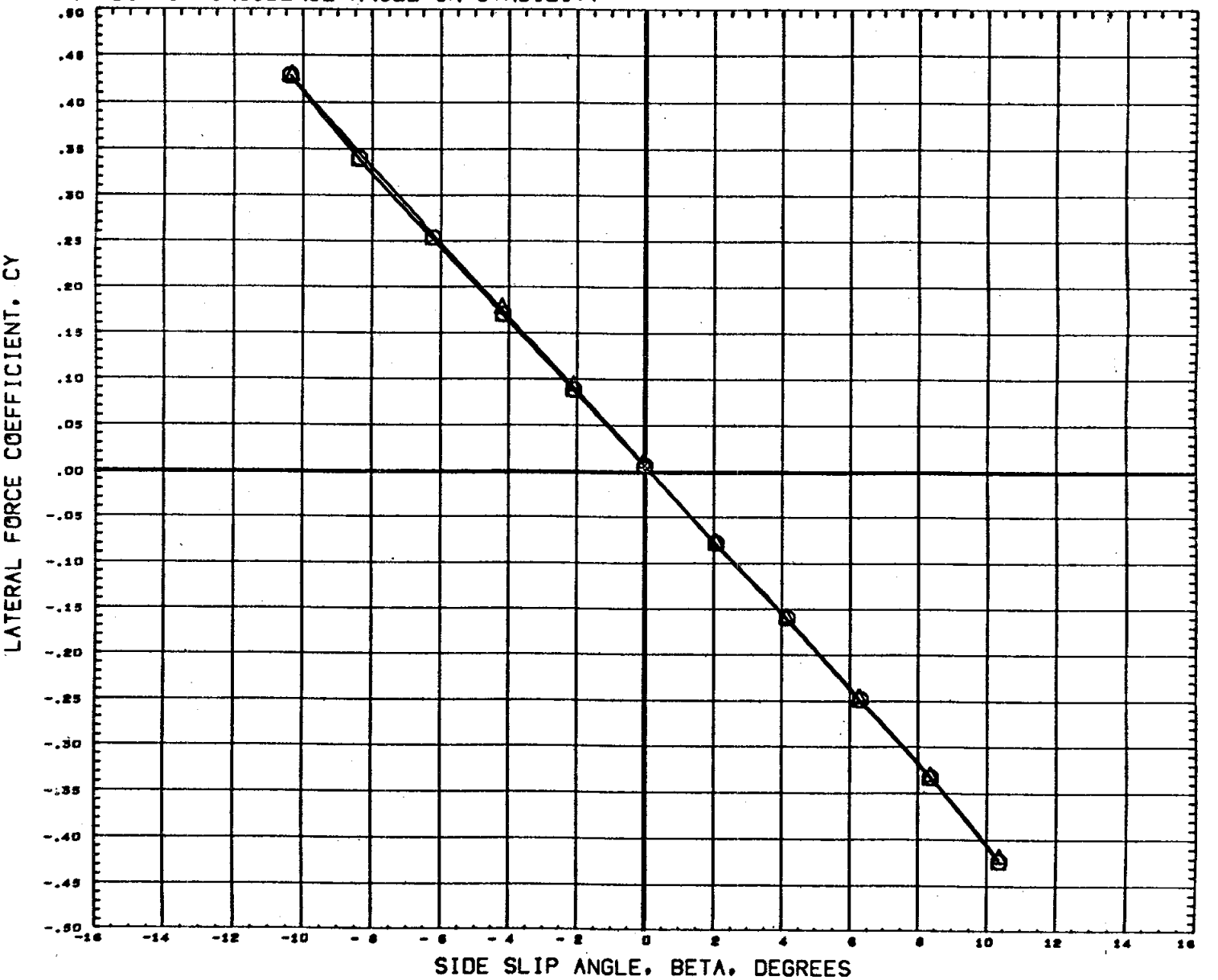
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



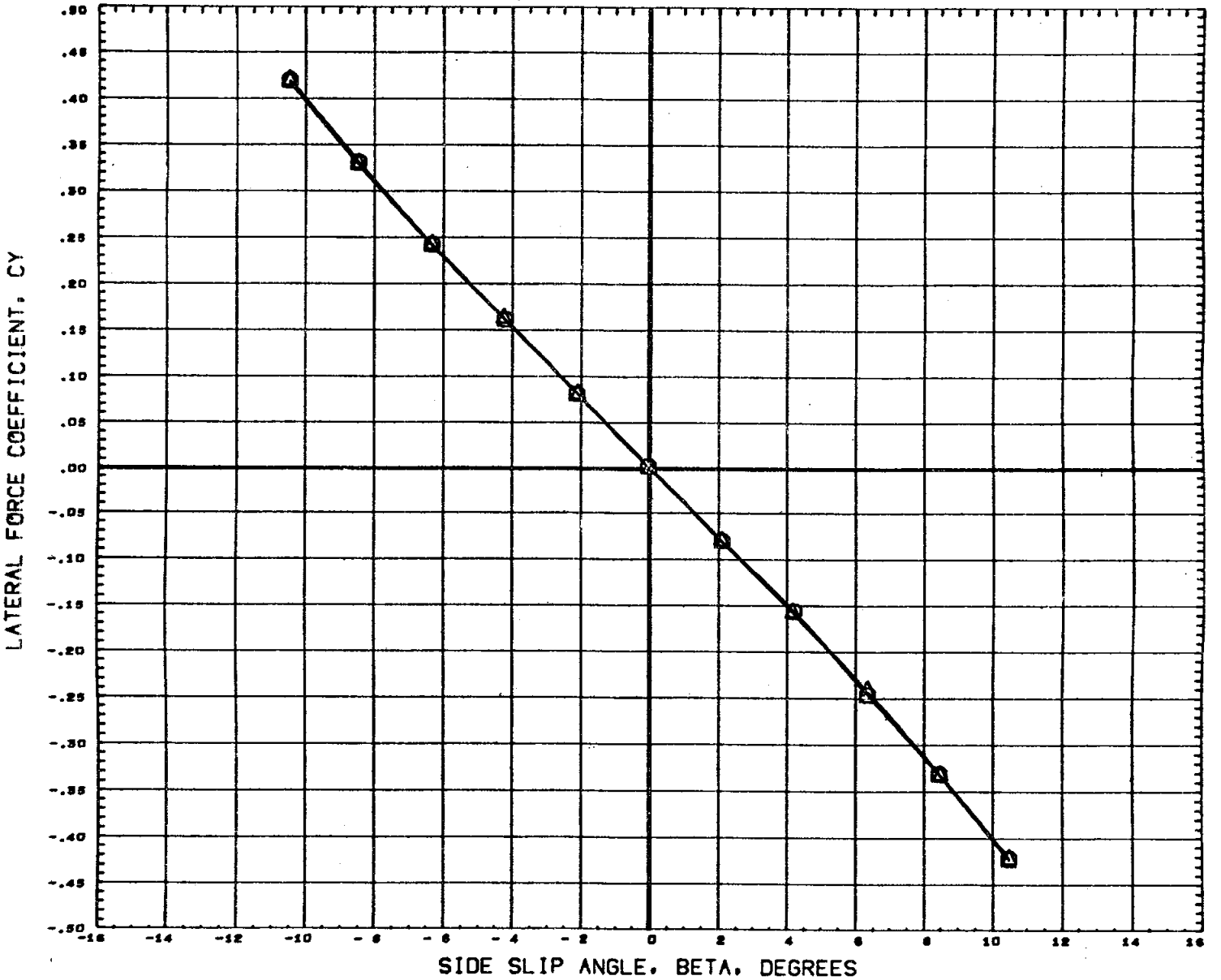
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY

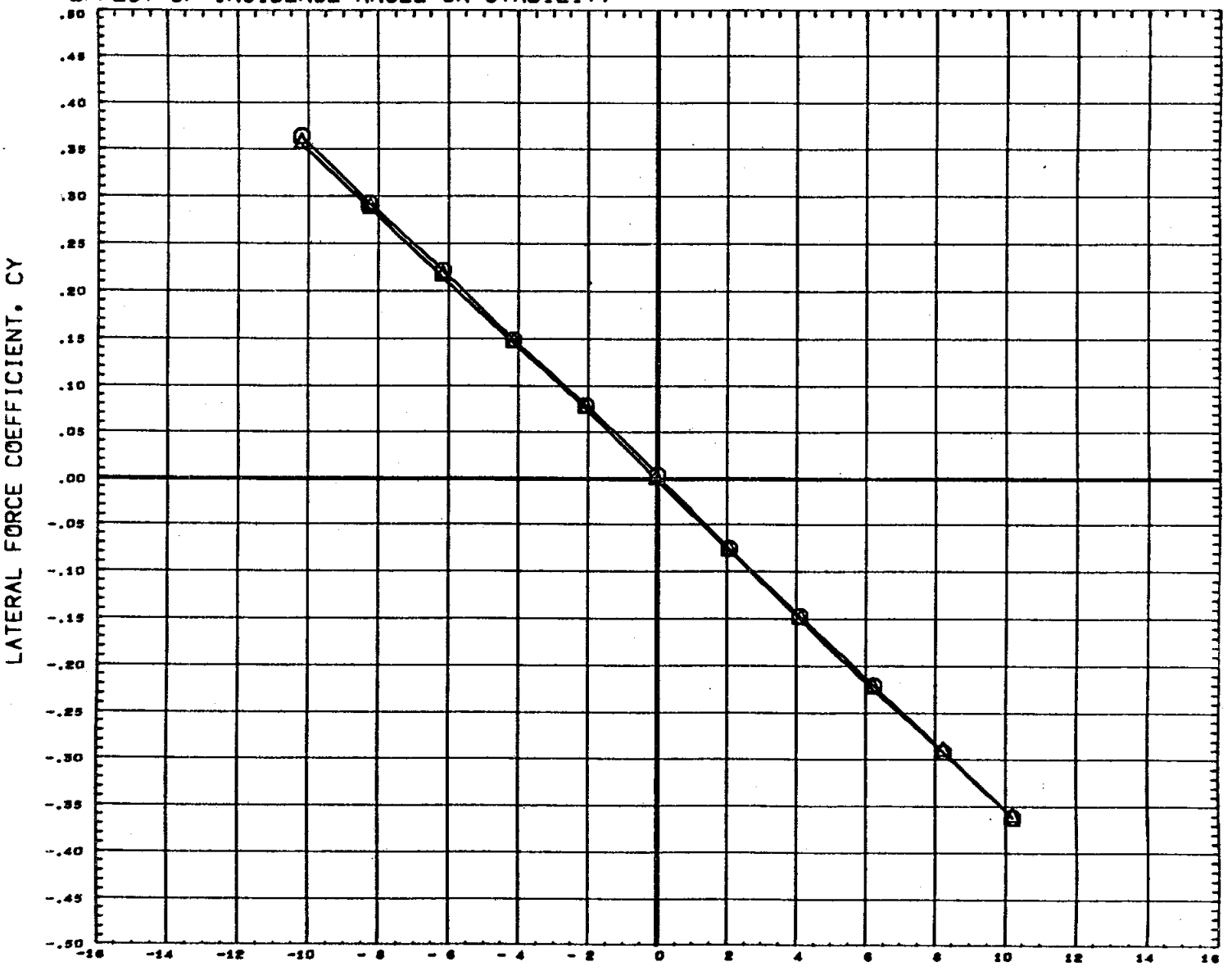


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	0.000
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF INCIDENCE ANGLE ON STABILITY

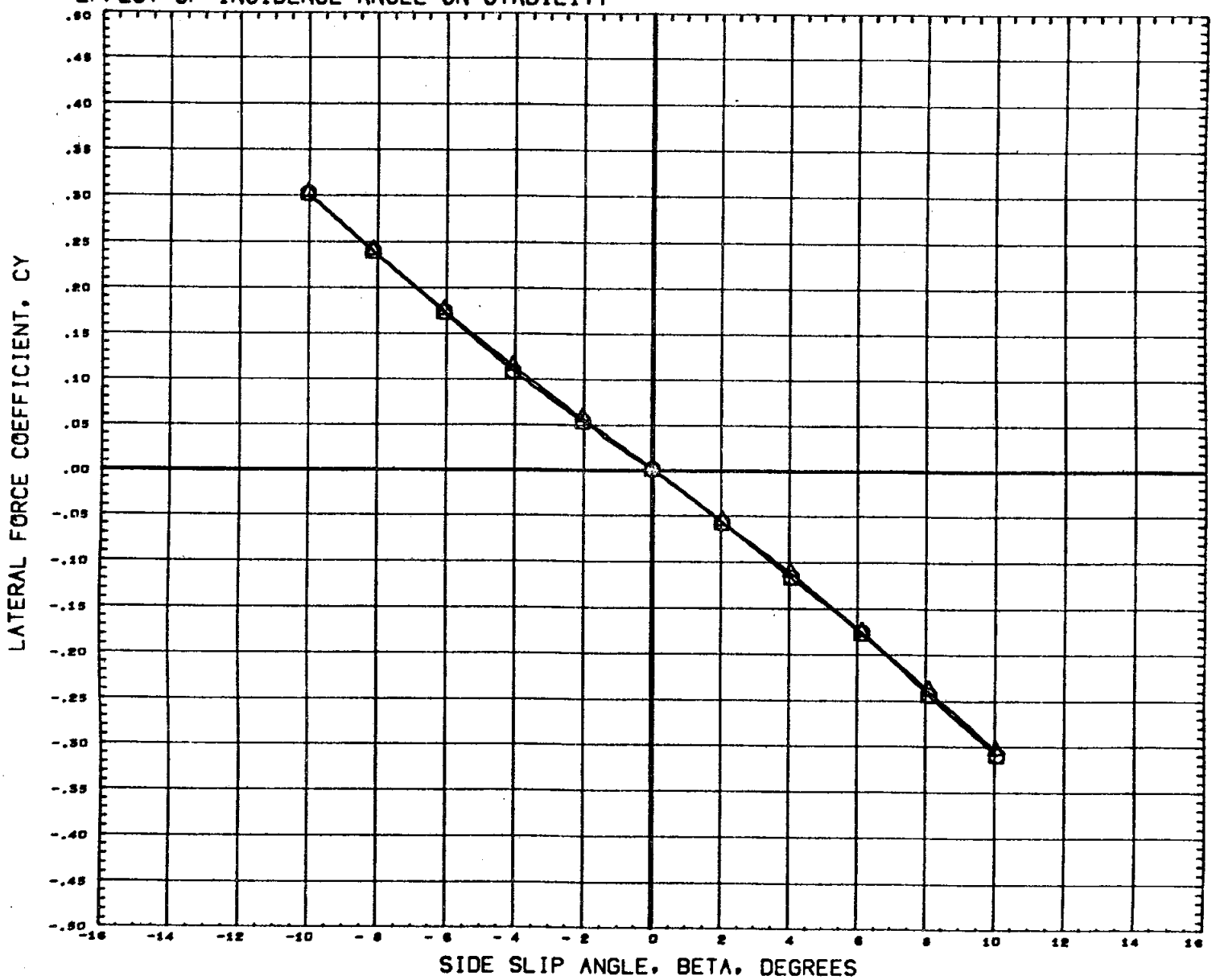


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	0.000
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY



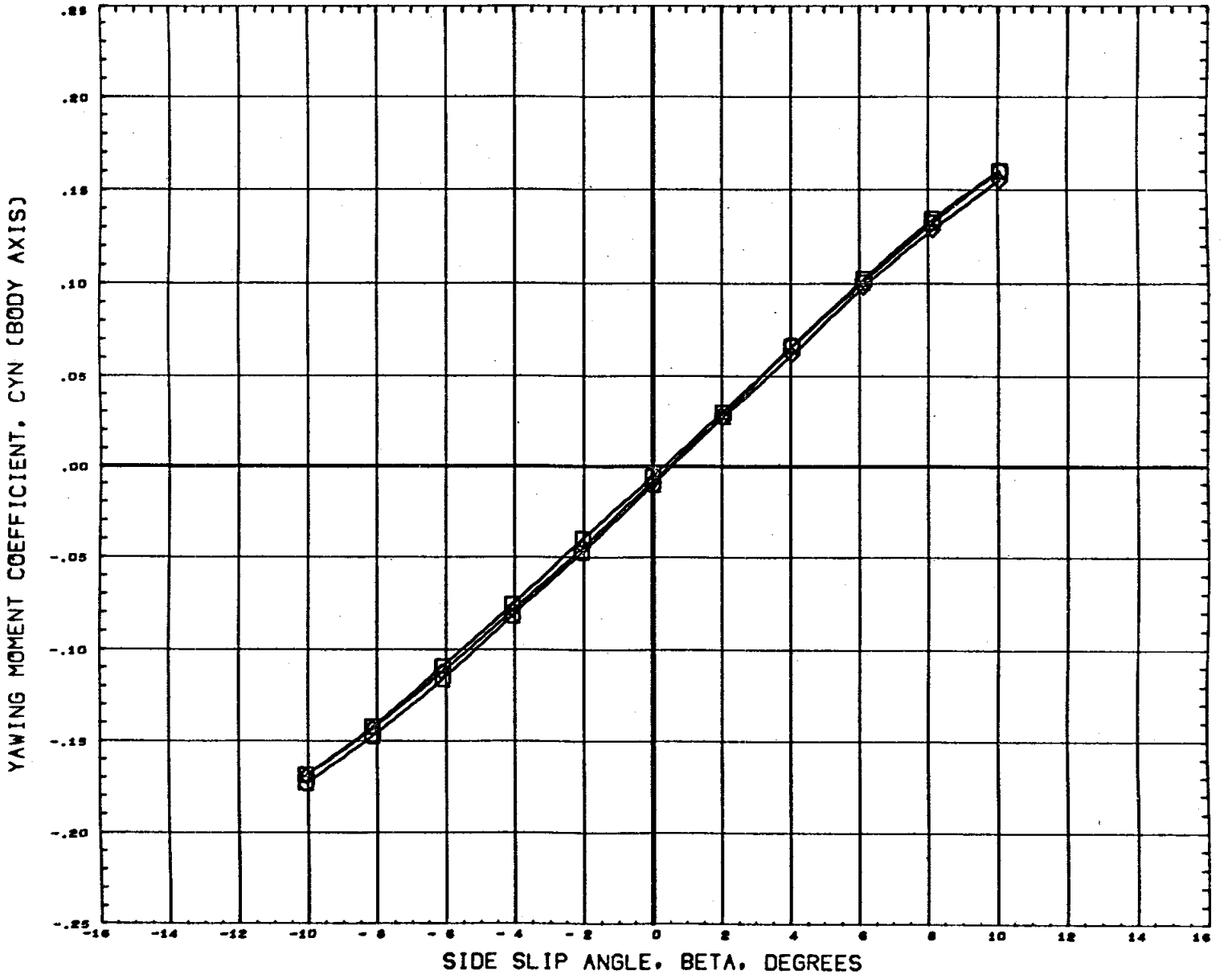
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY

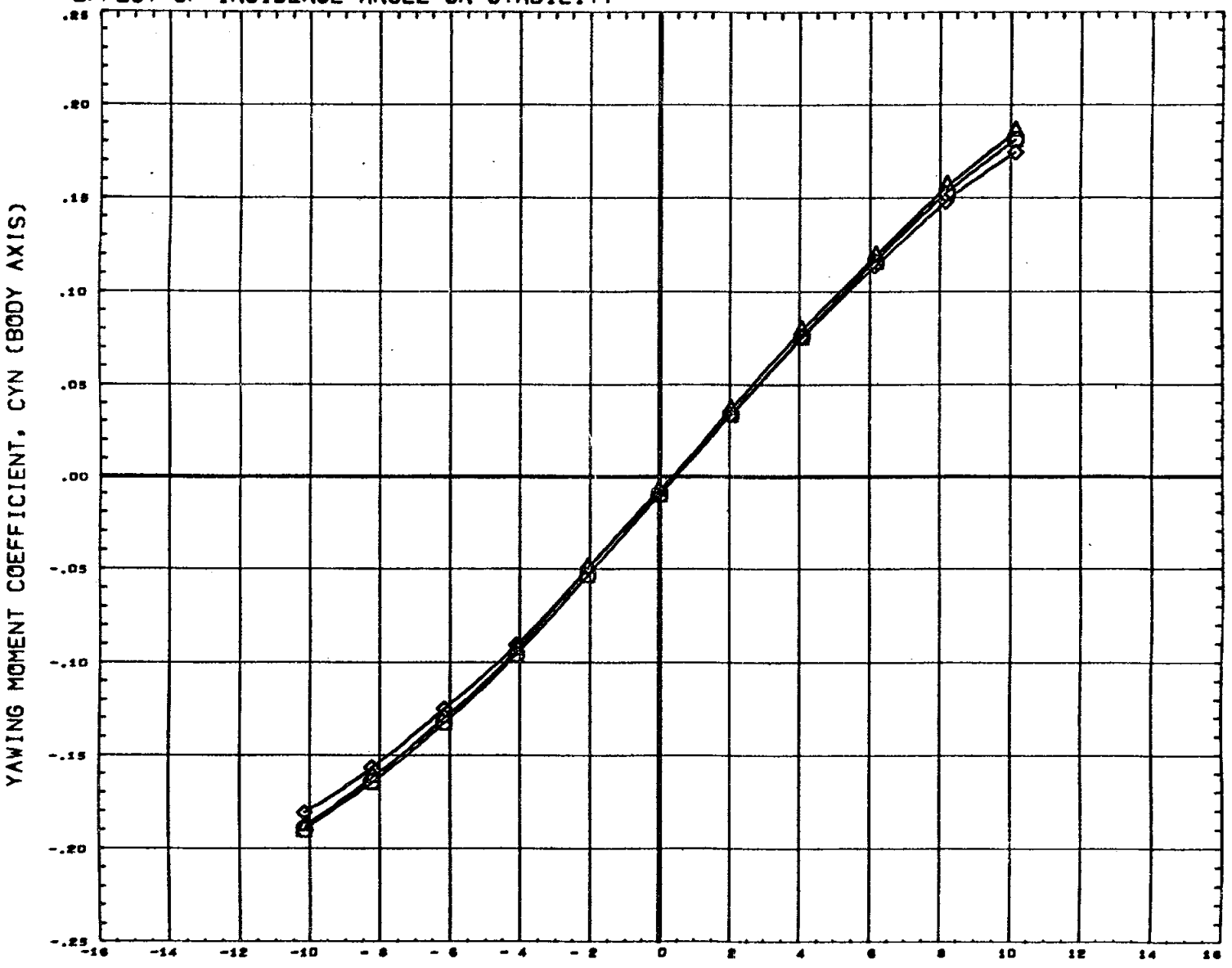


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (01)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (02)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77017)	□	M556(IA1) NAR ATP BL LV (02)(T1)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY

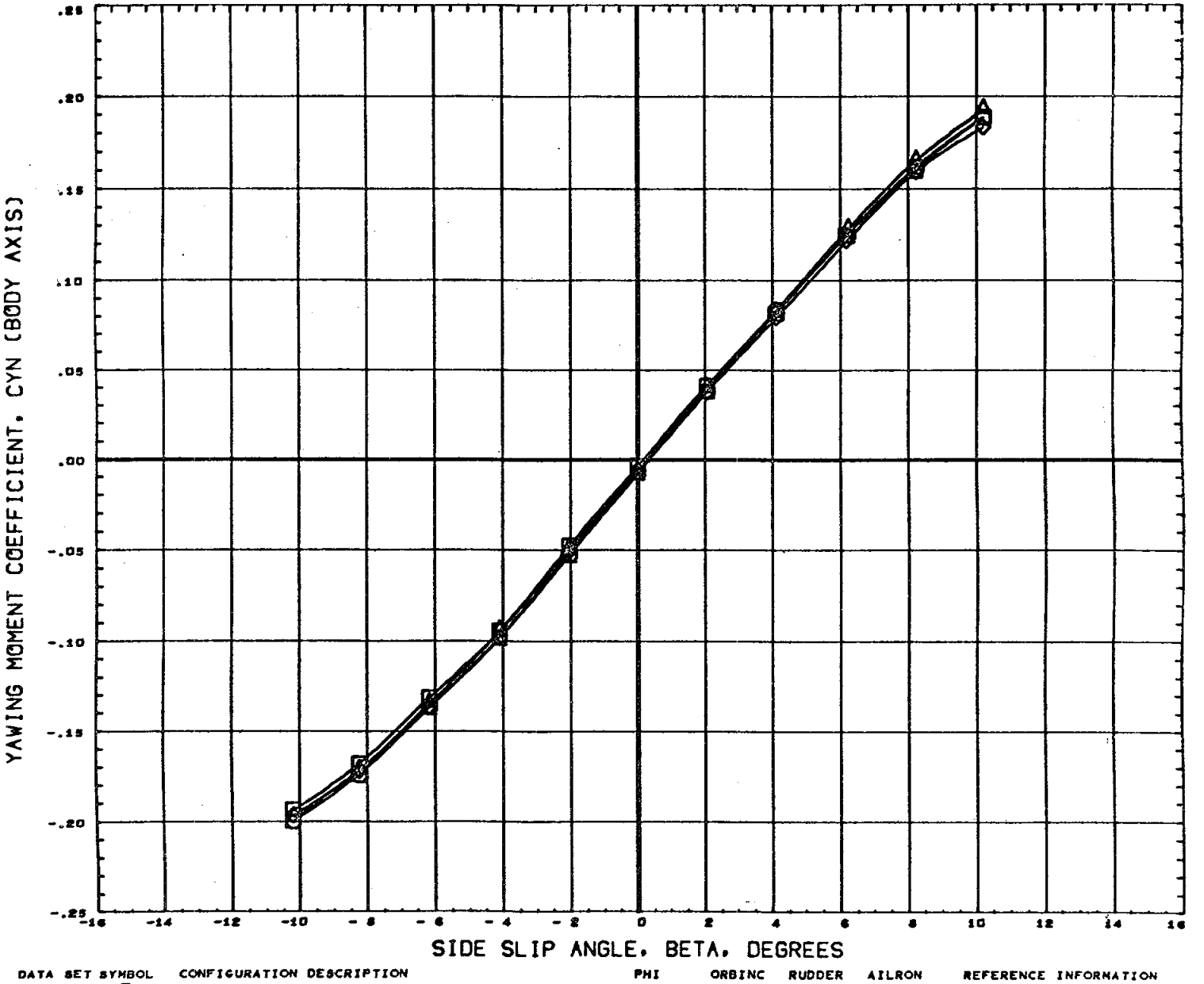


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(C77015)	⋈	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY

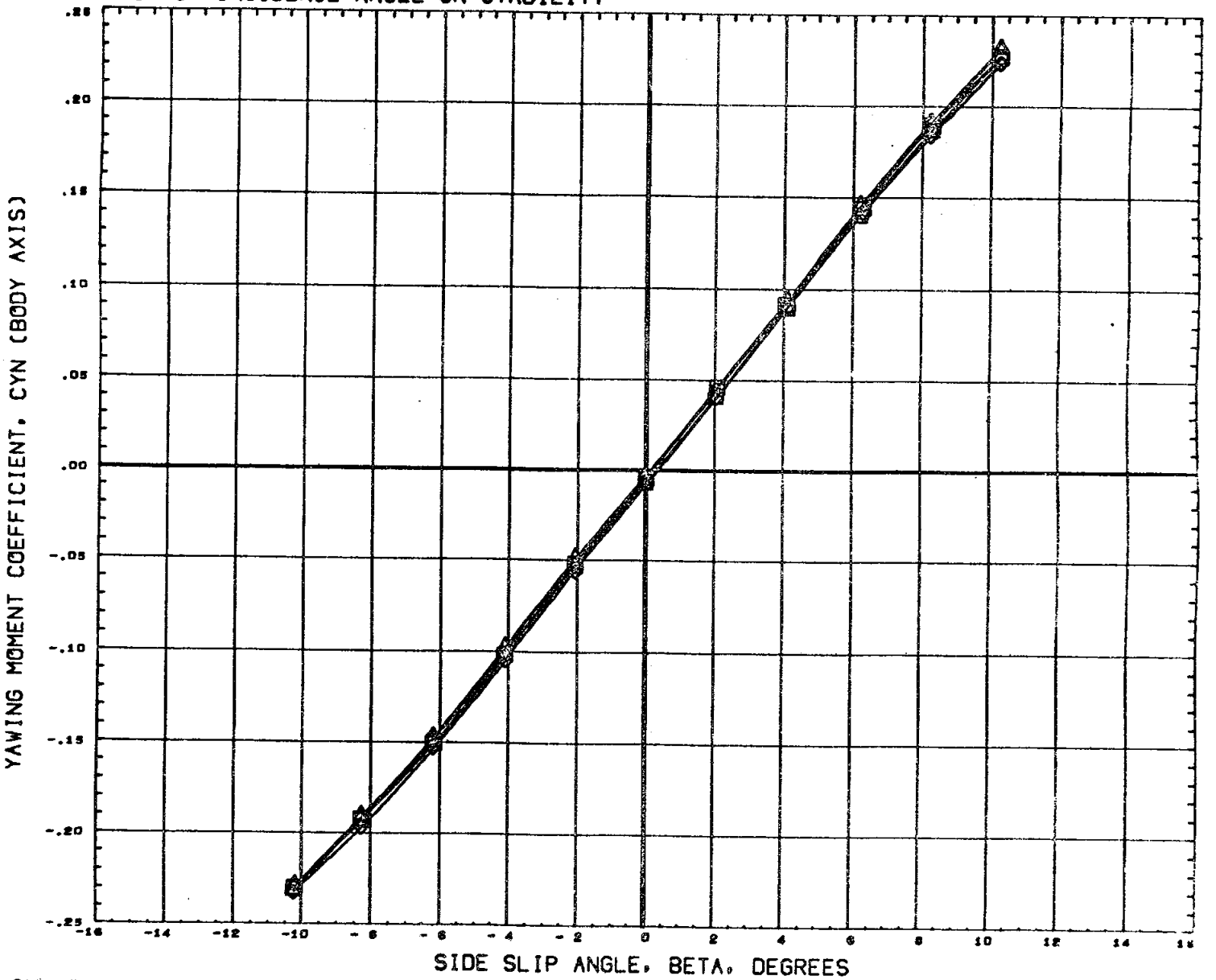


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	-1.200	0.000	0.000
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY



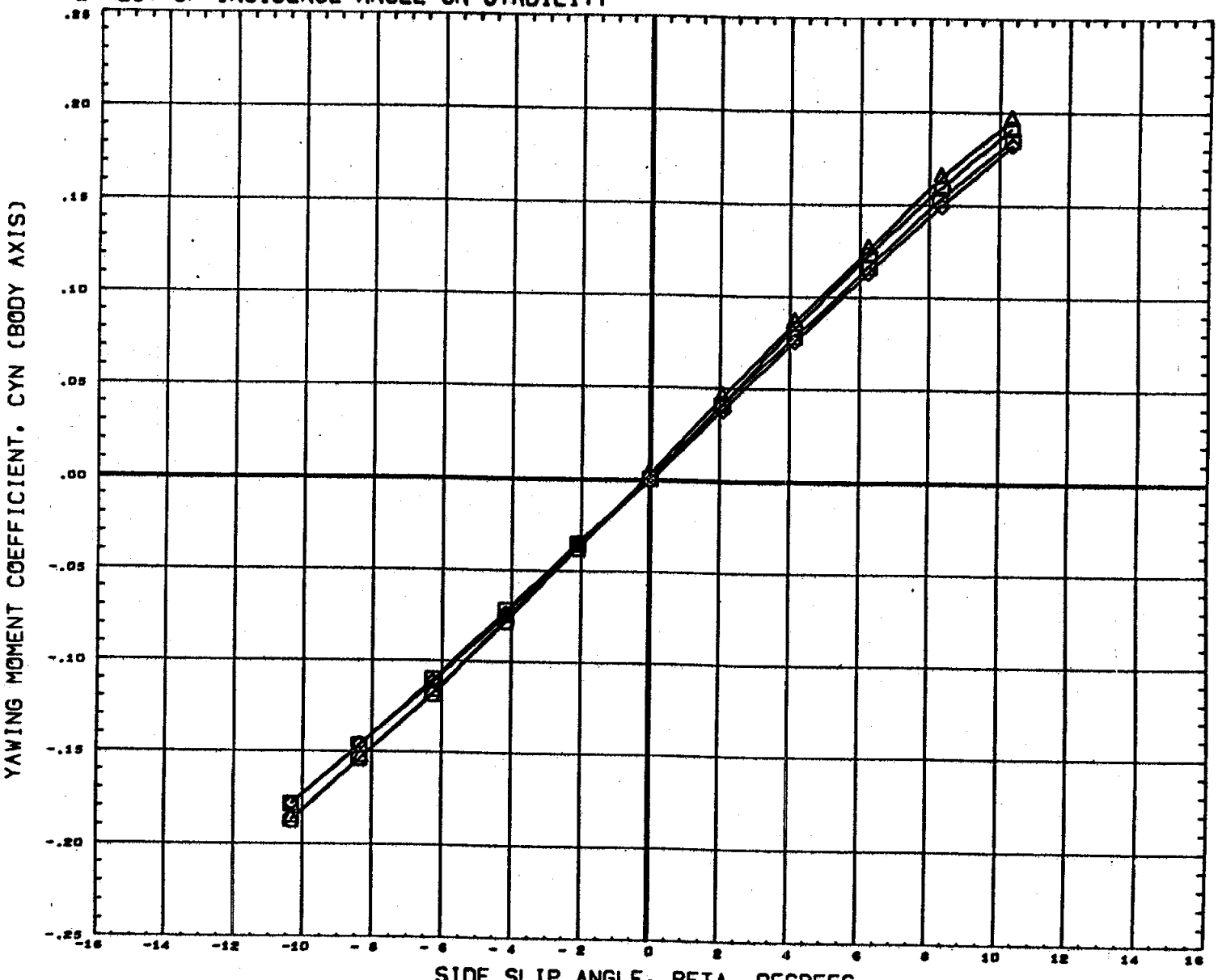
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY



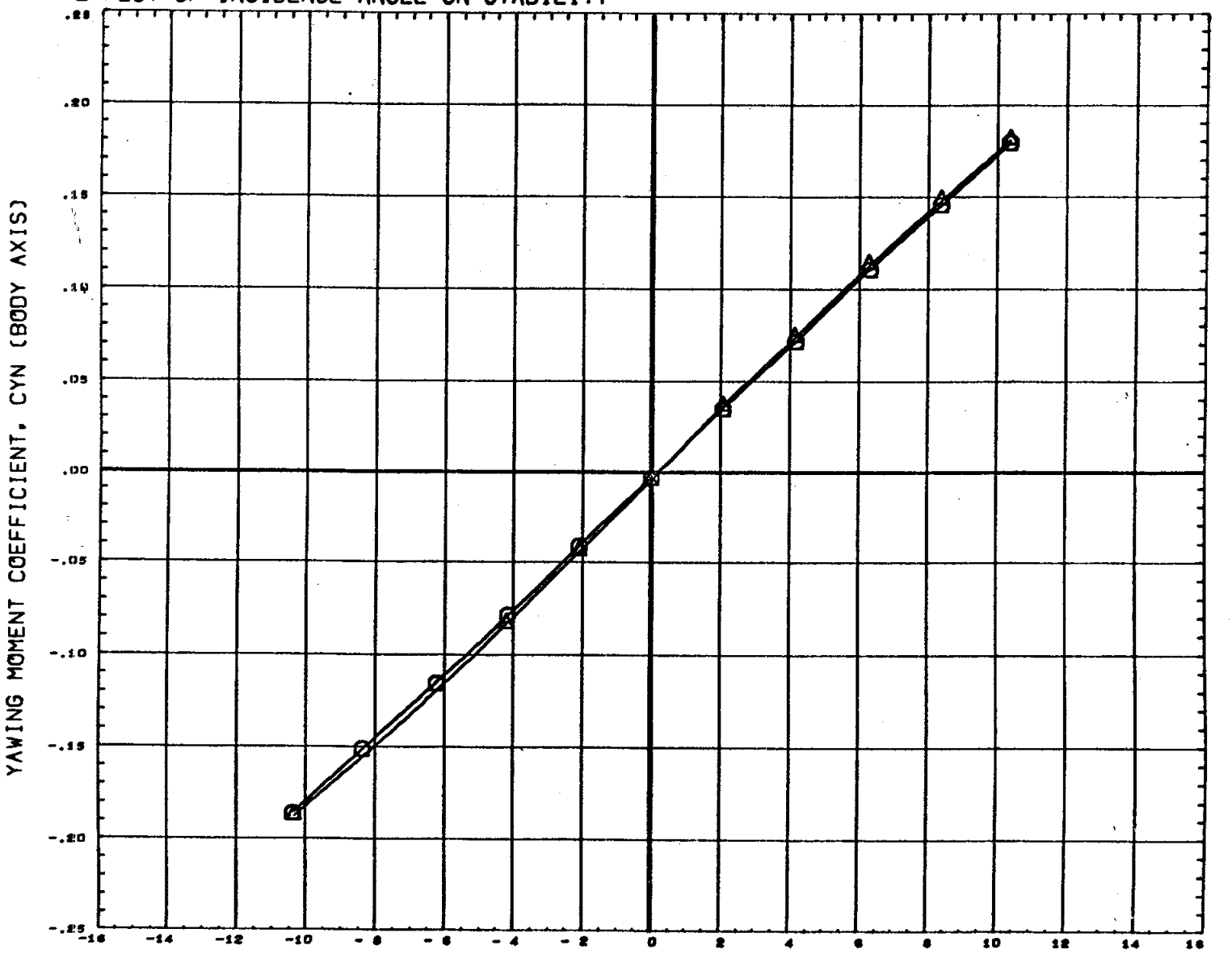
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	3.3120	IN.
BREF	3.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



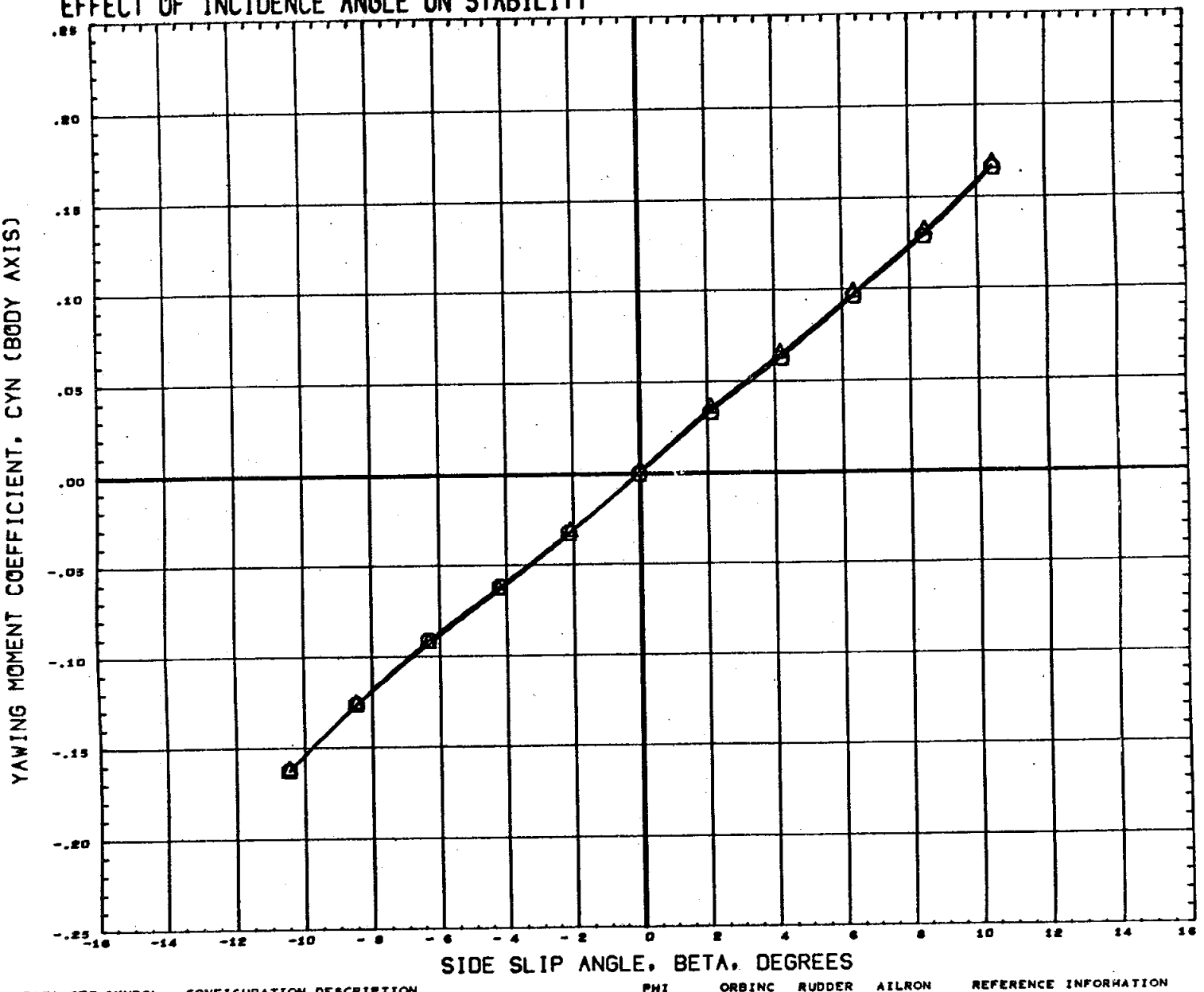
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY



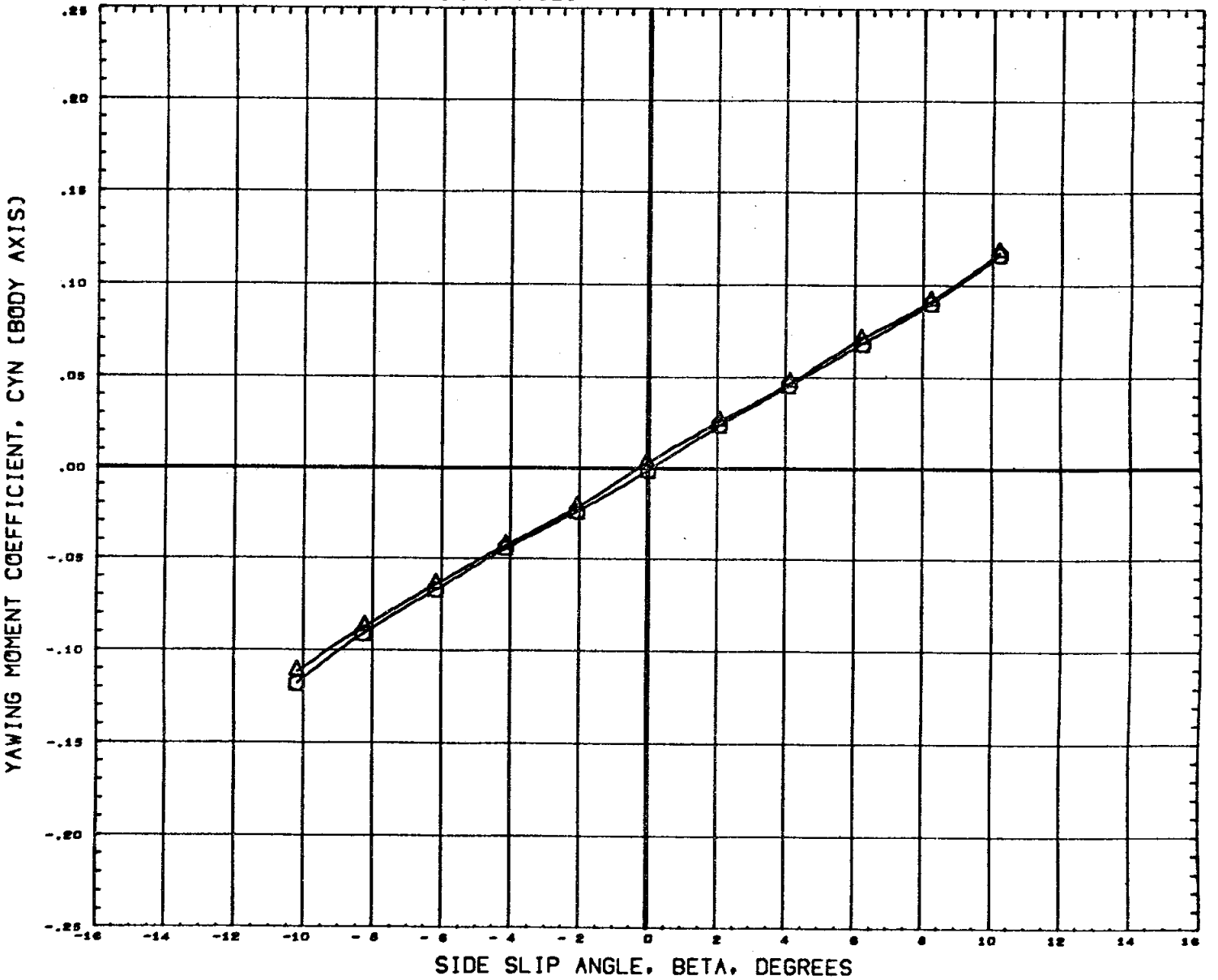
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF INCIDENCE ANGLE ON STABILITY



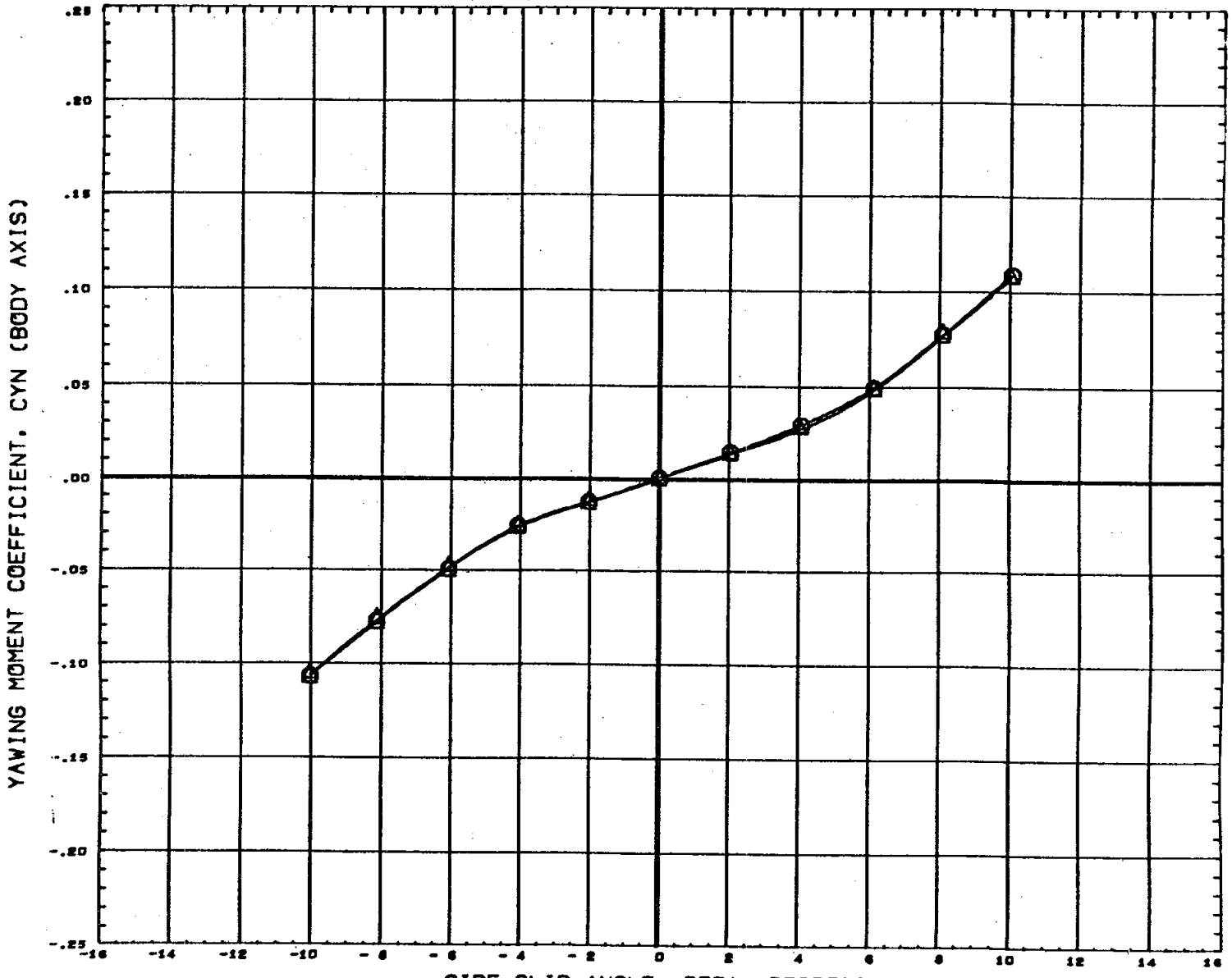
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	3.3120	IN.
BREF	3.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY

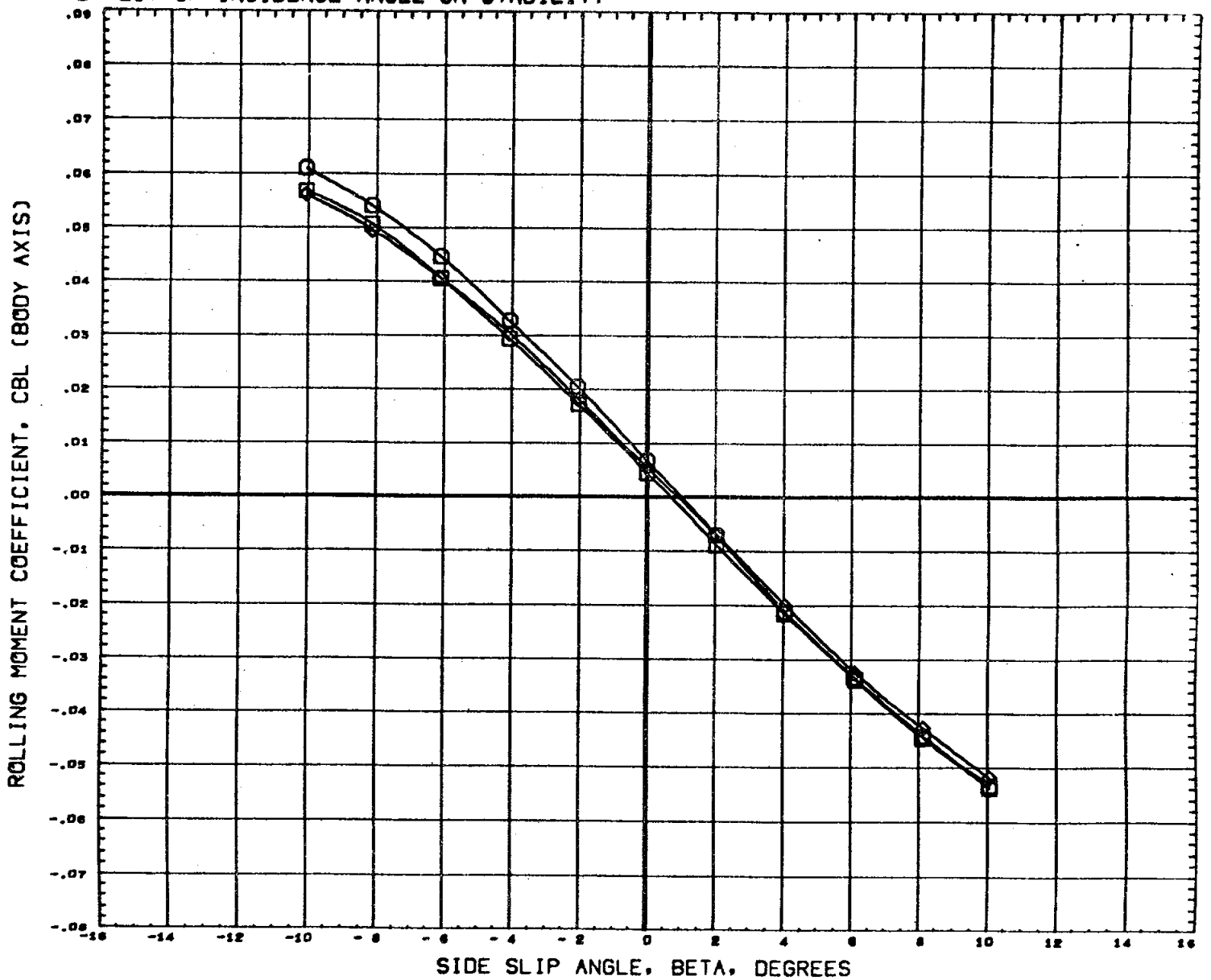


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	0.000
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY



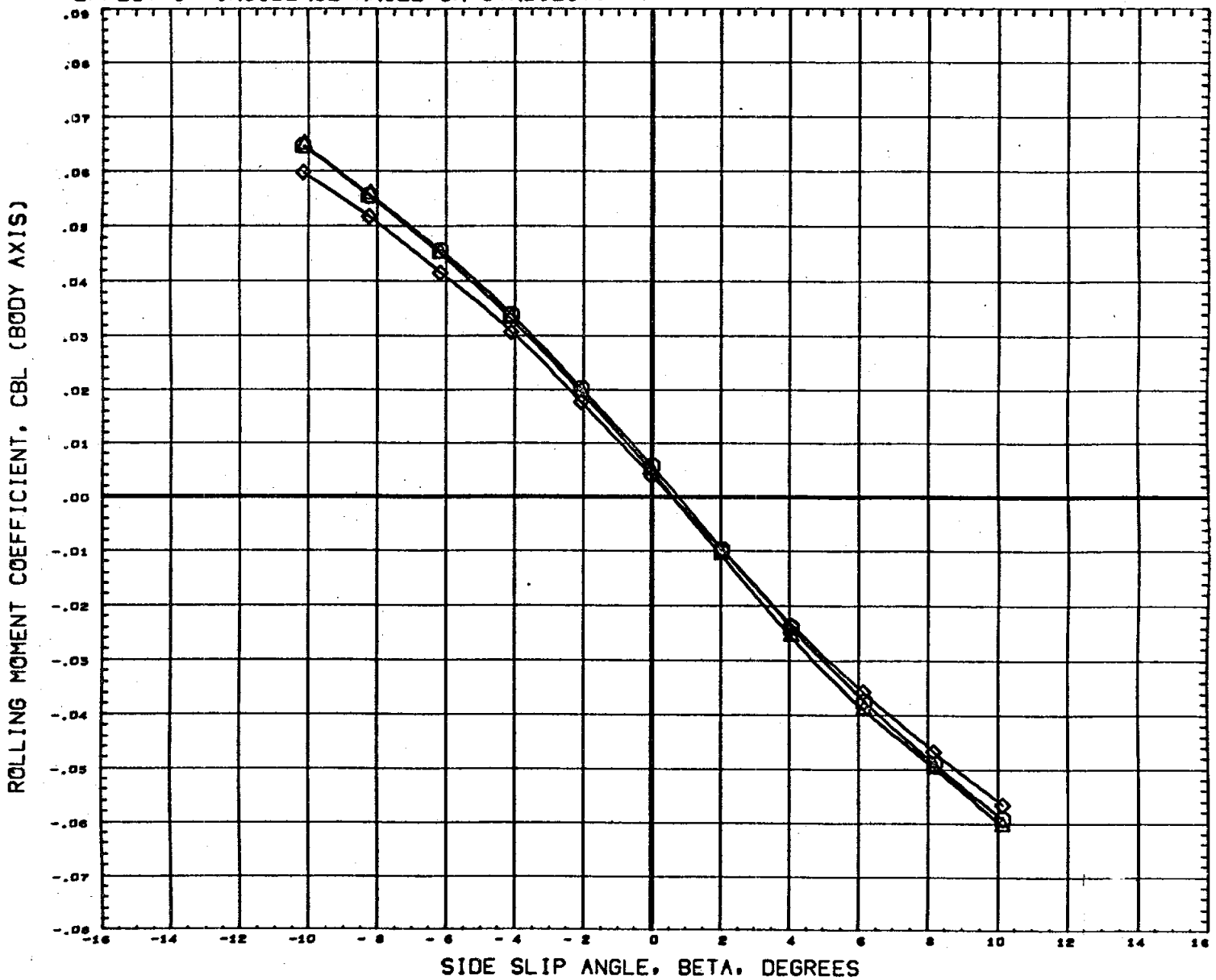
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY

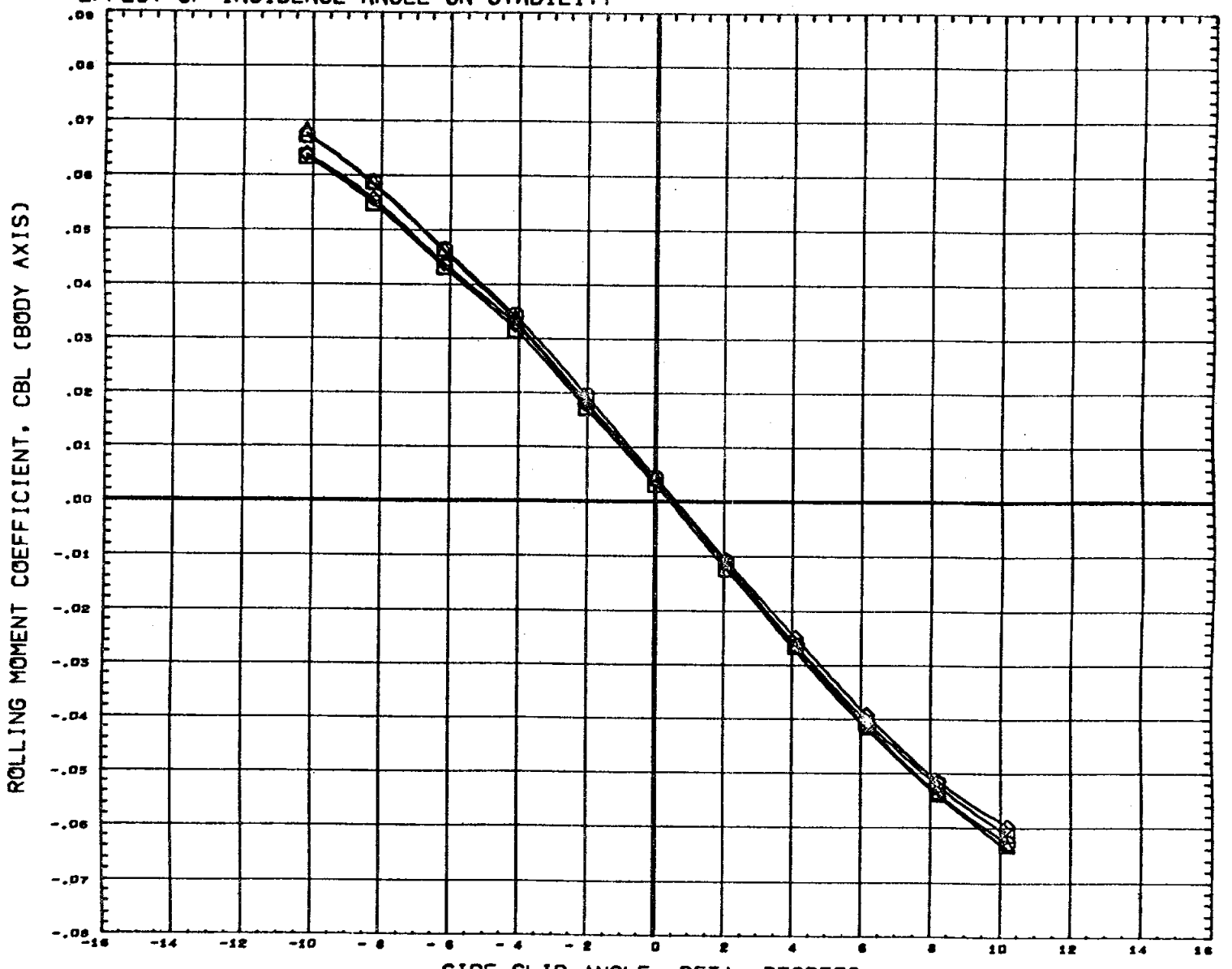


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY



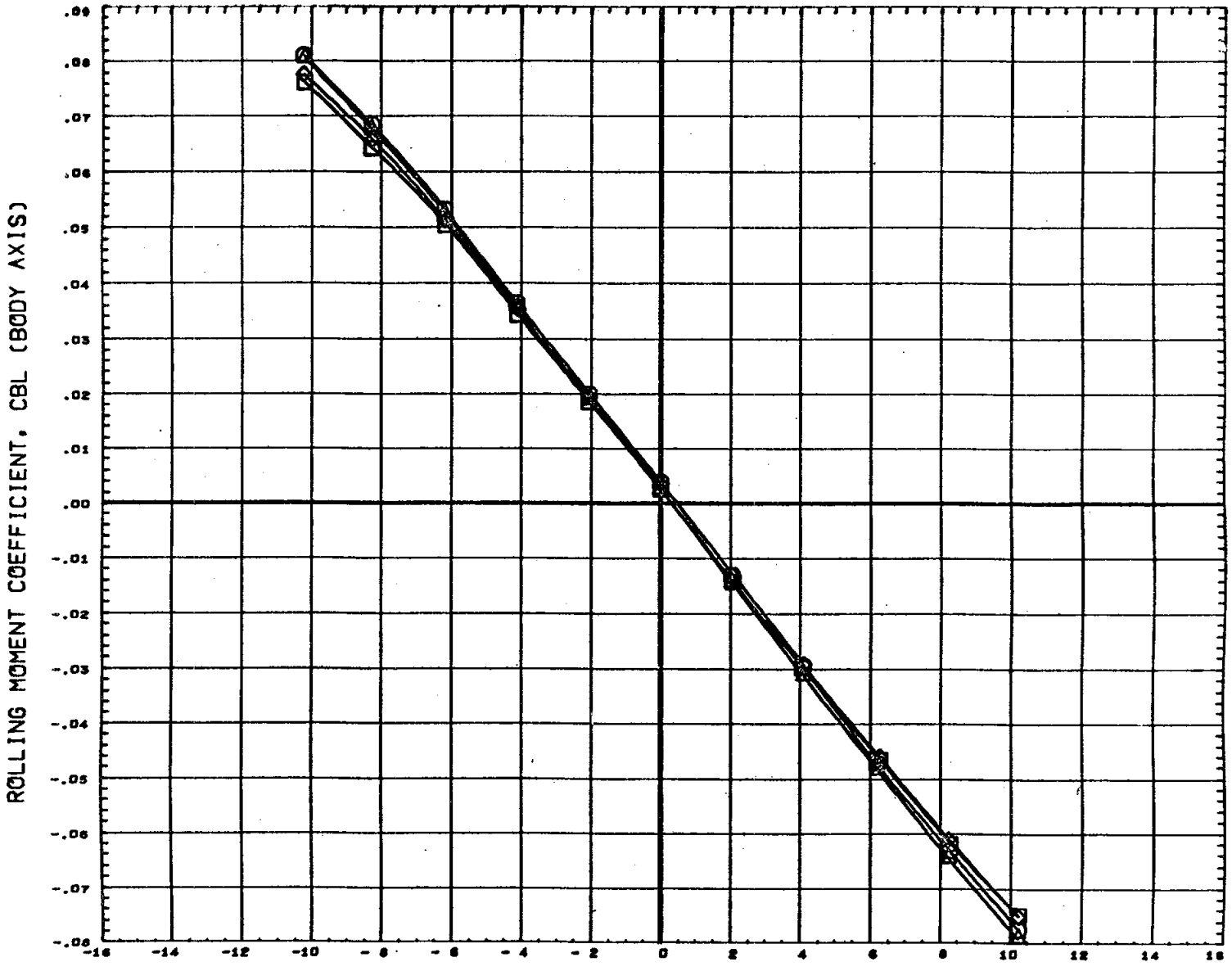
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY

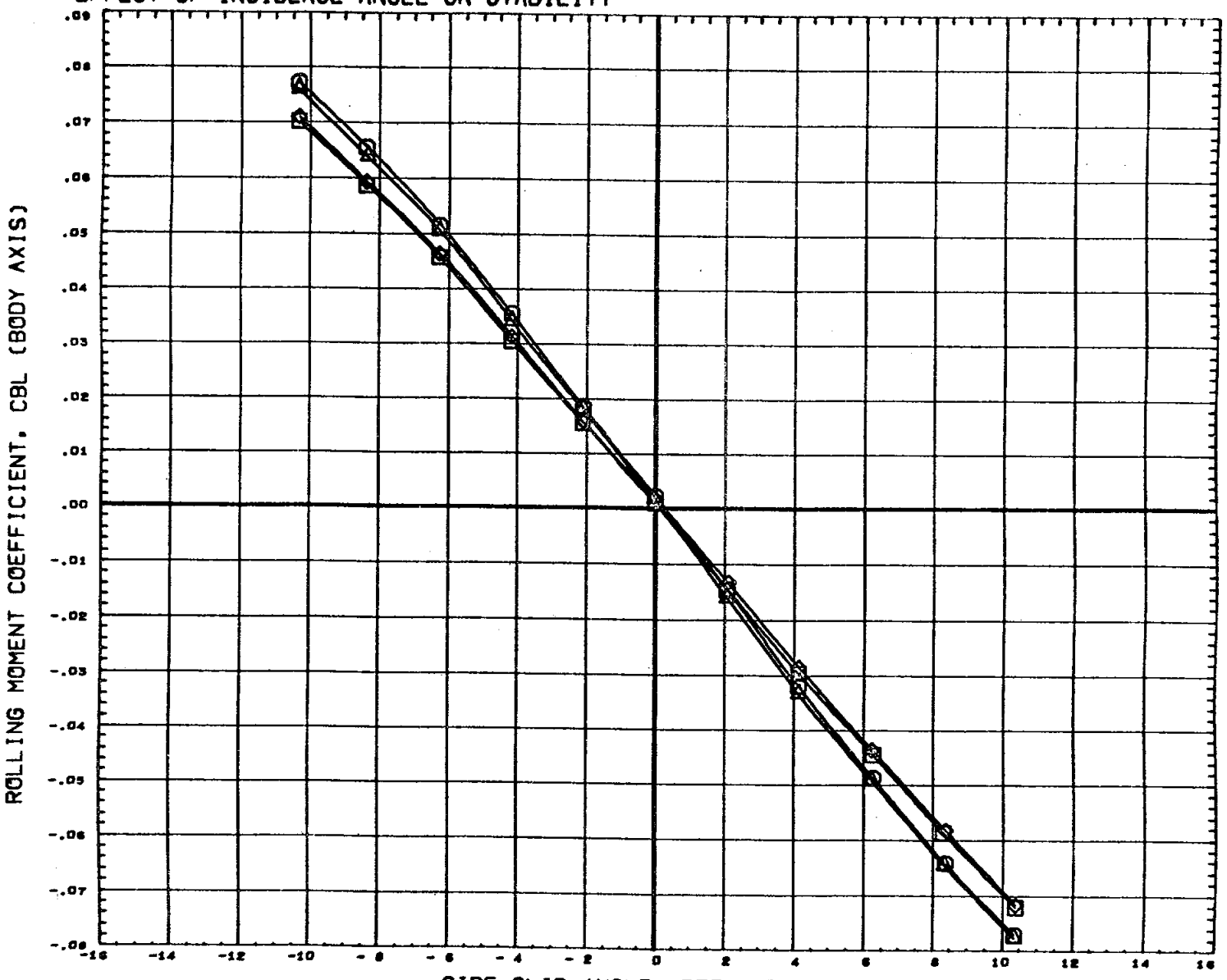


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY



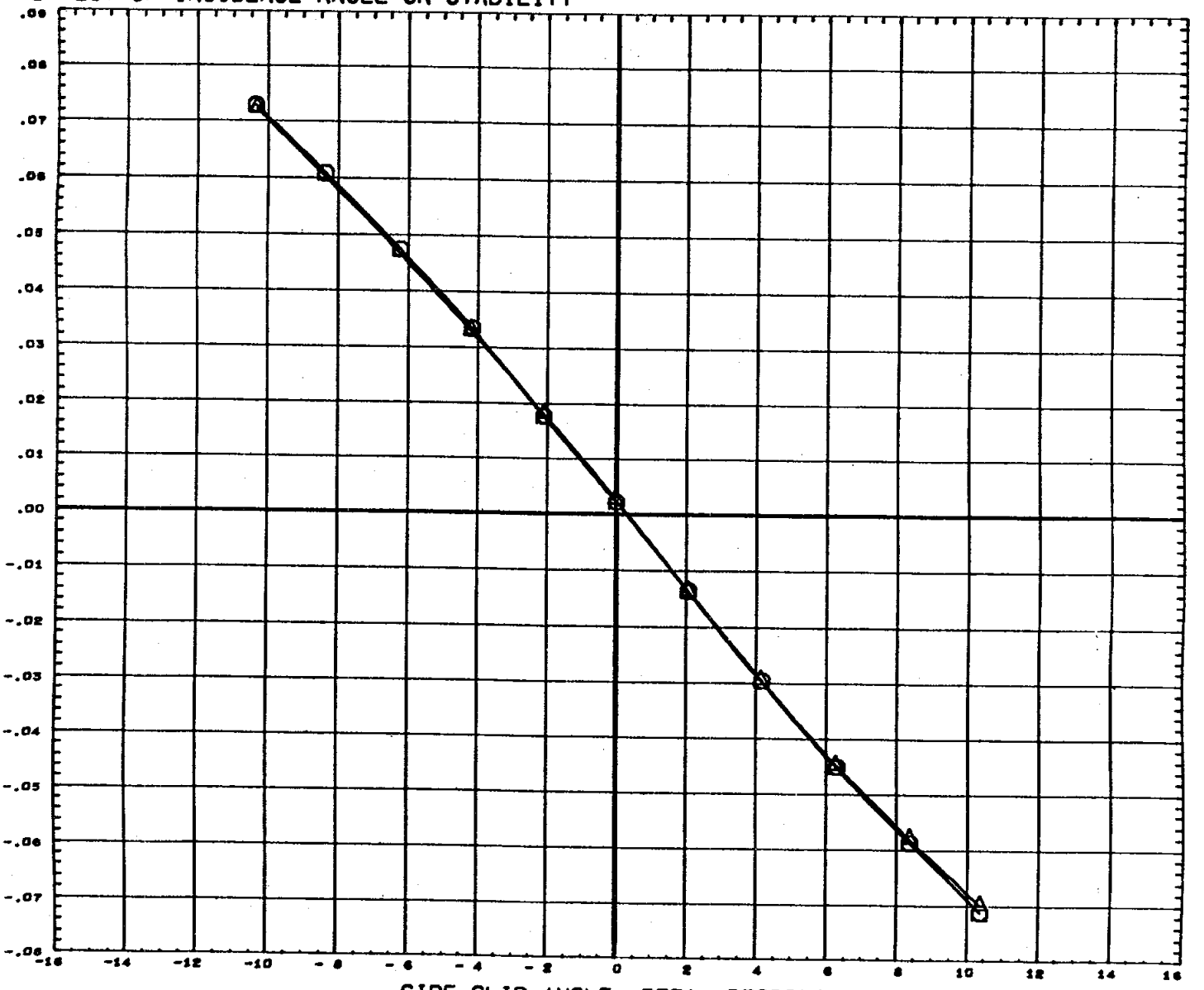
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	⊠	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



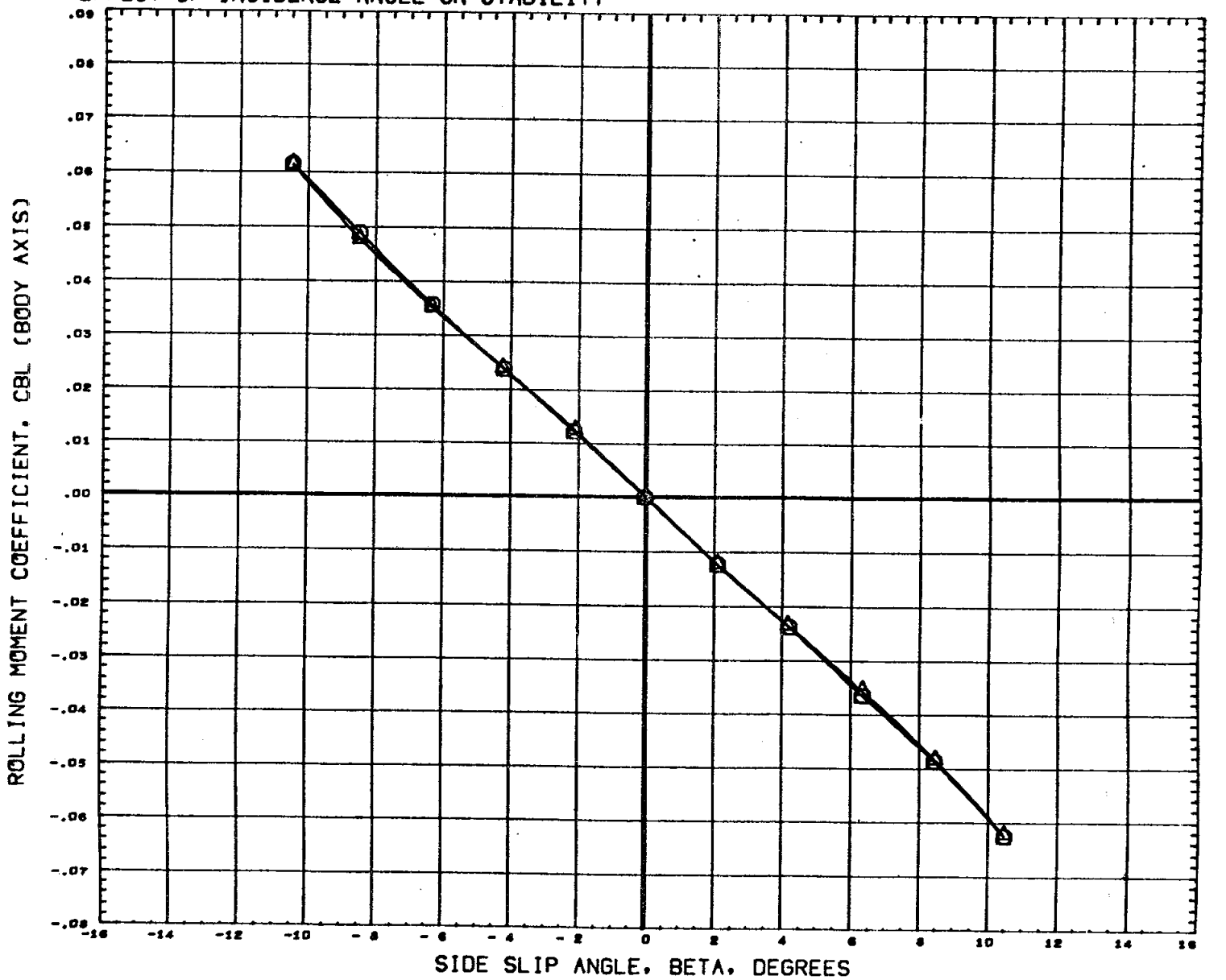
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY



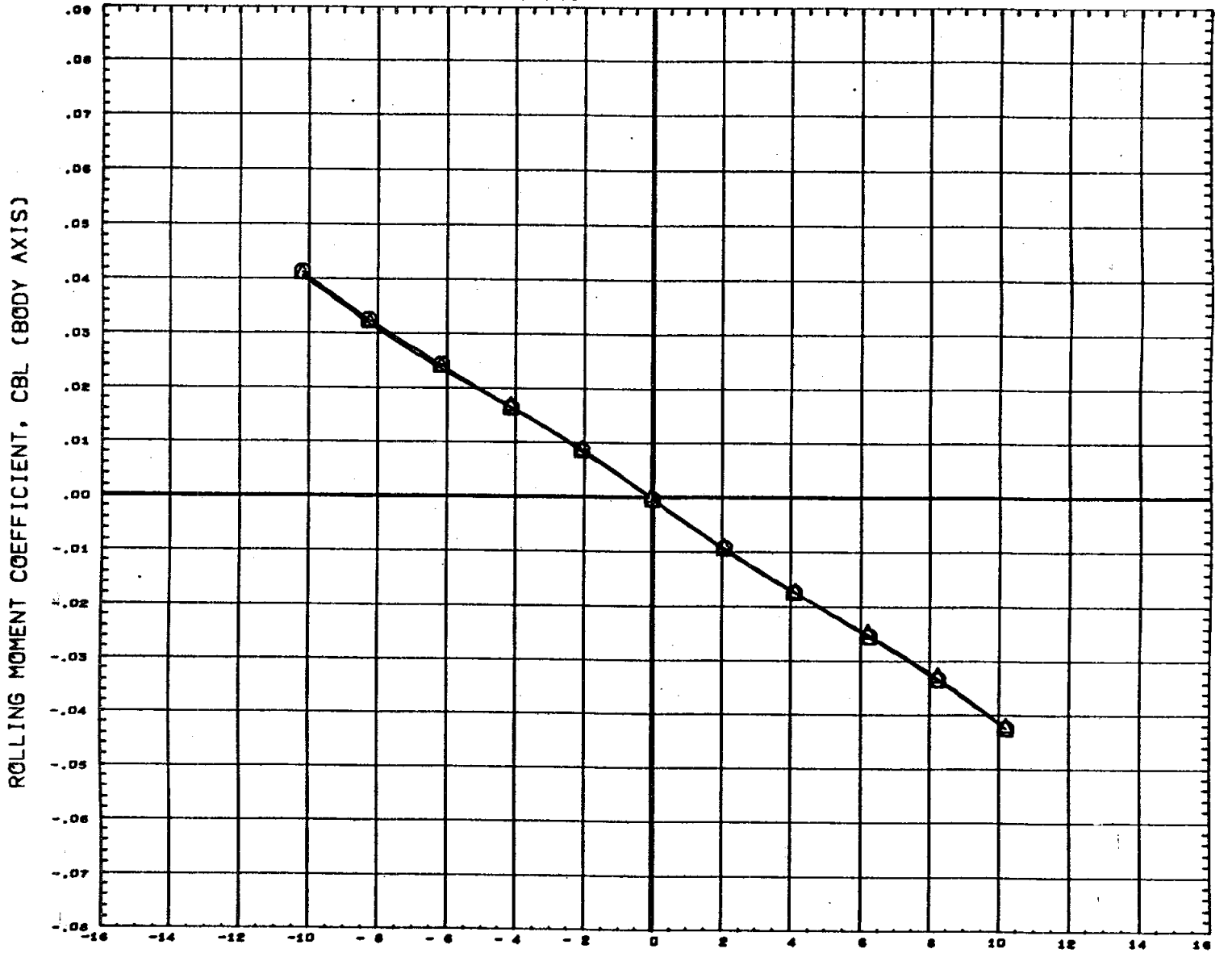
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	0.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF INCIDENCE ANGLE ON STABILITY



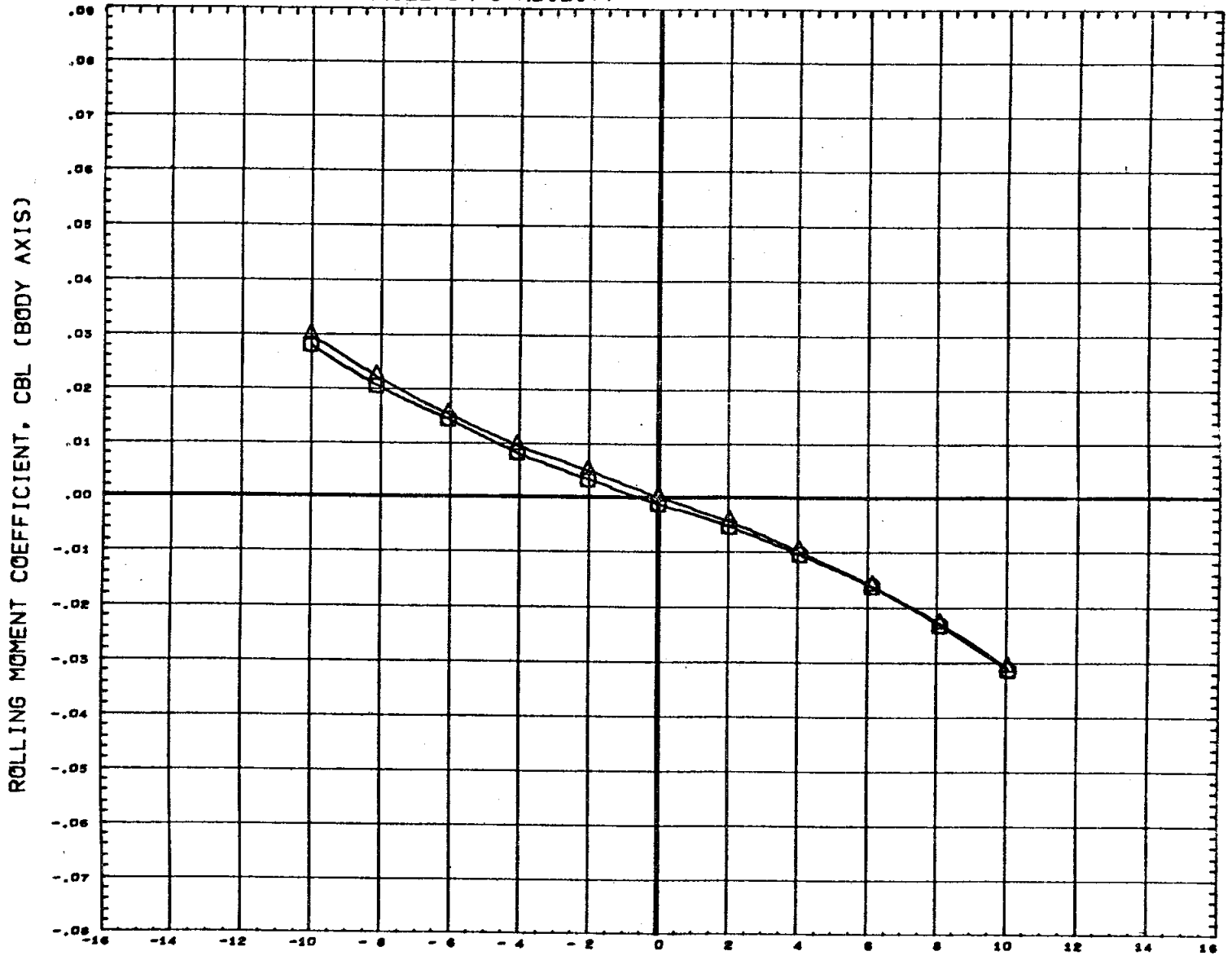
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY



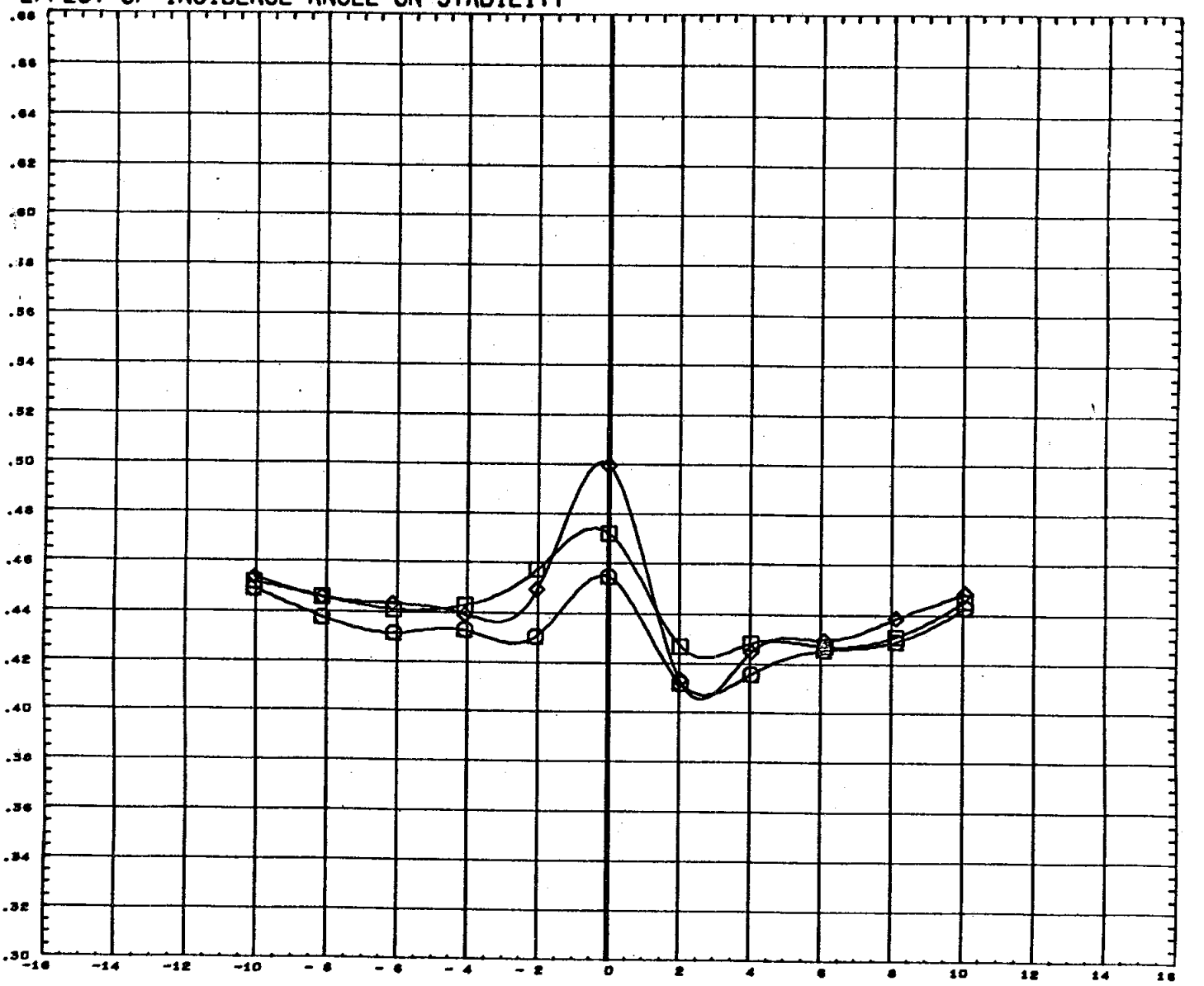
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY



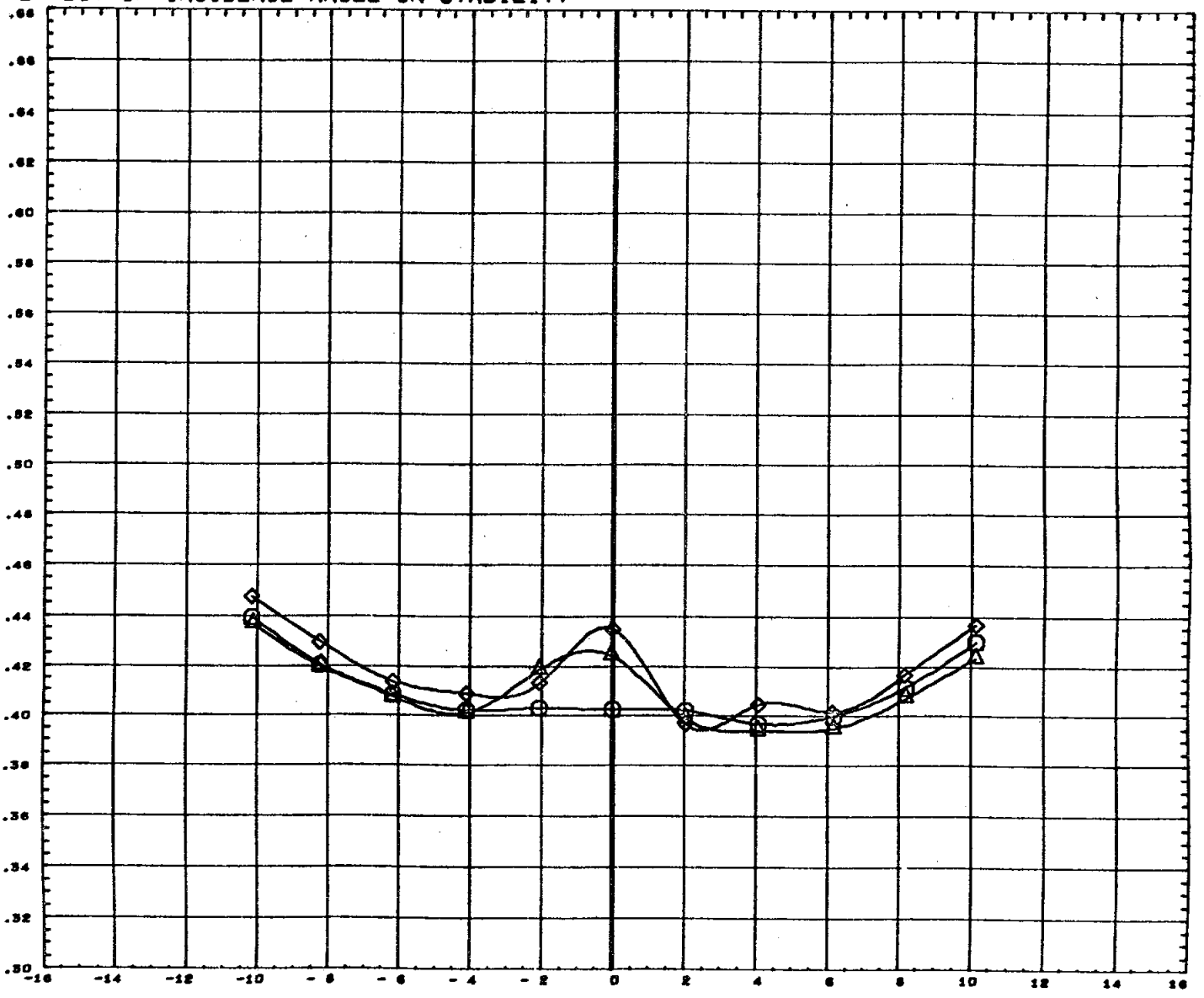
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF INCIDENCE ANGLE ON STABILITY

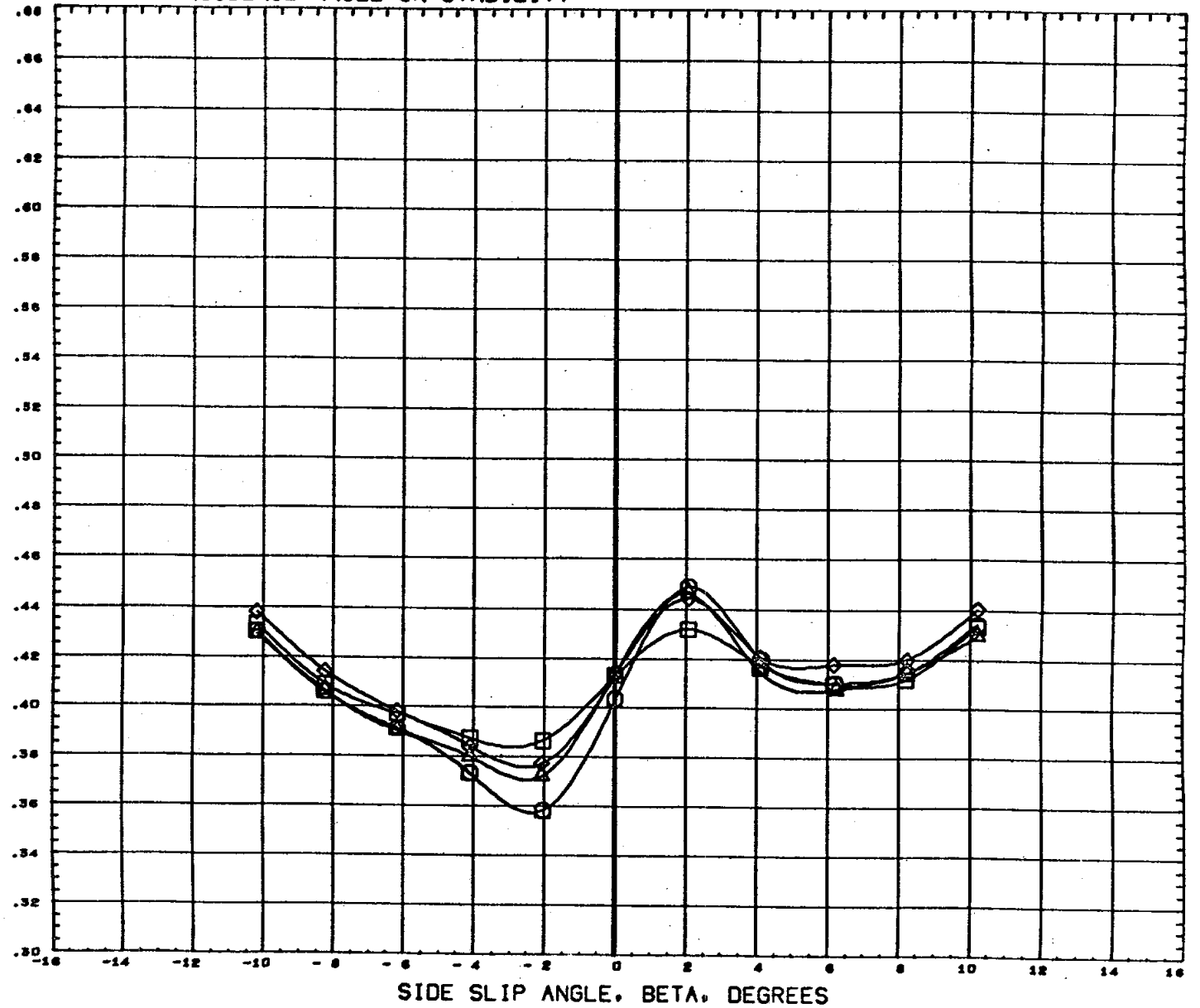


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	-1.200	0.000	0.000
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF INCIDENCE ANGLE ON STABILITY



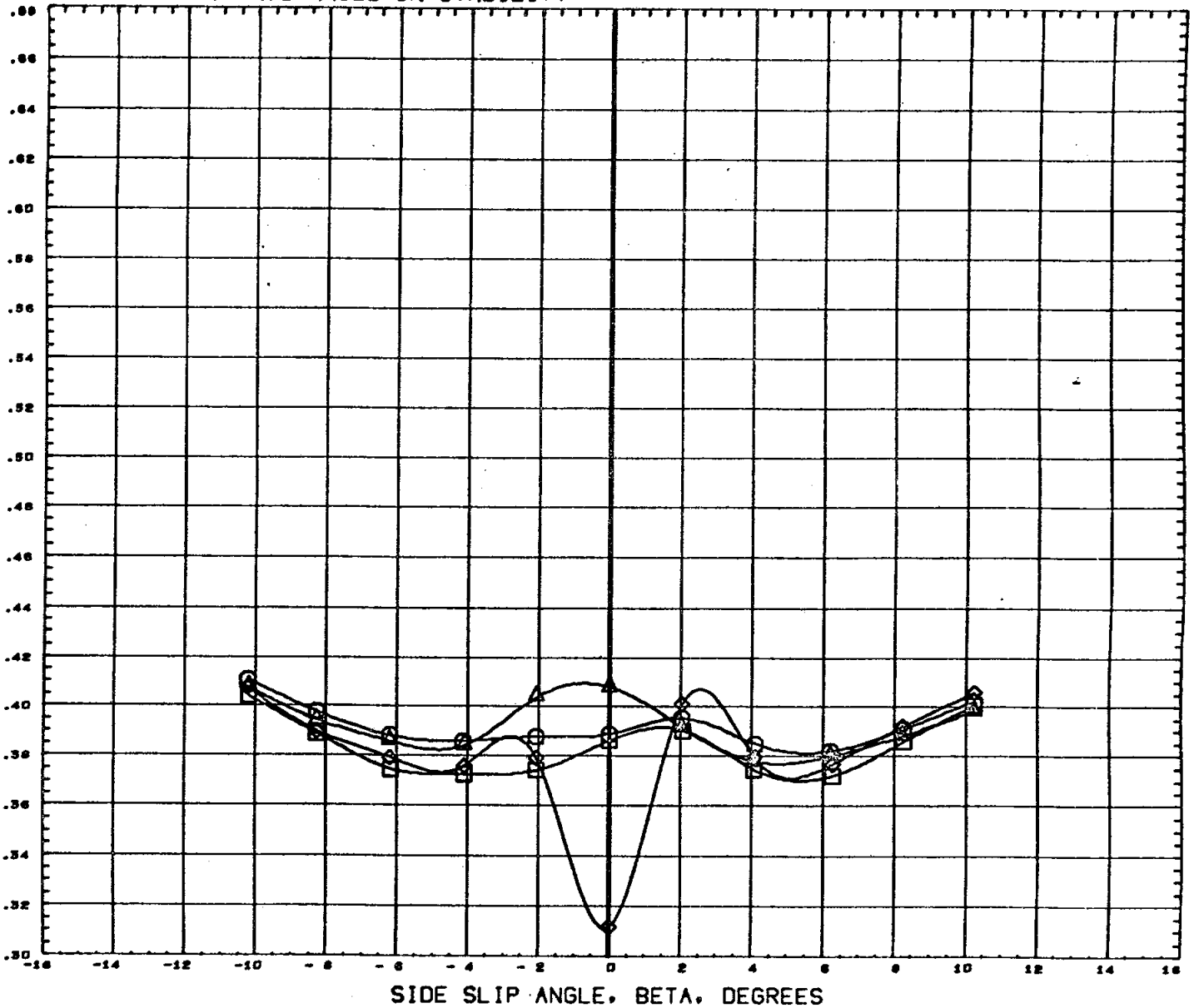
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF INCIDENCE ANGLE ON STABILITY



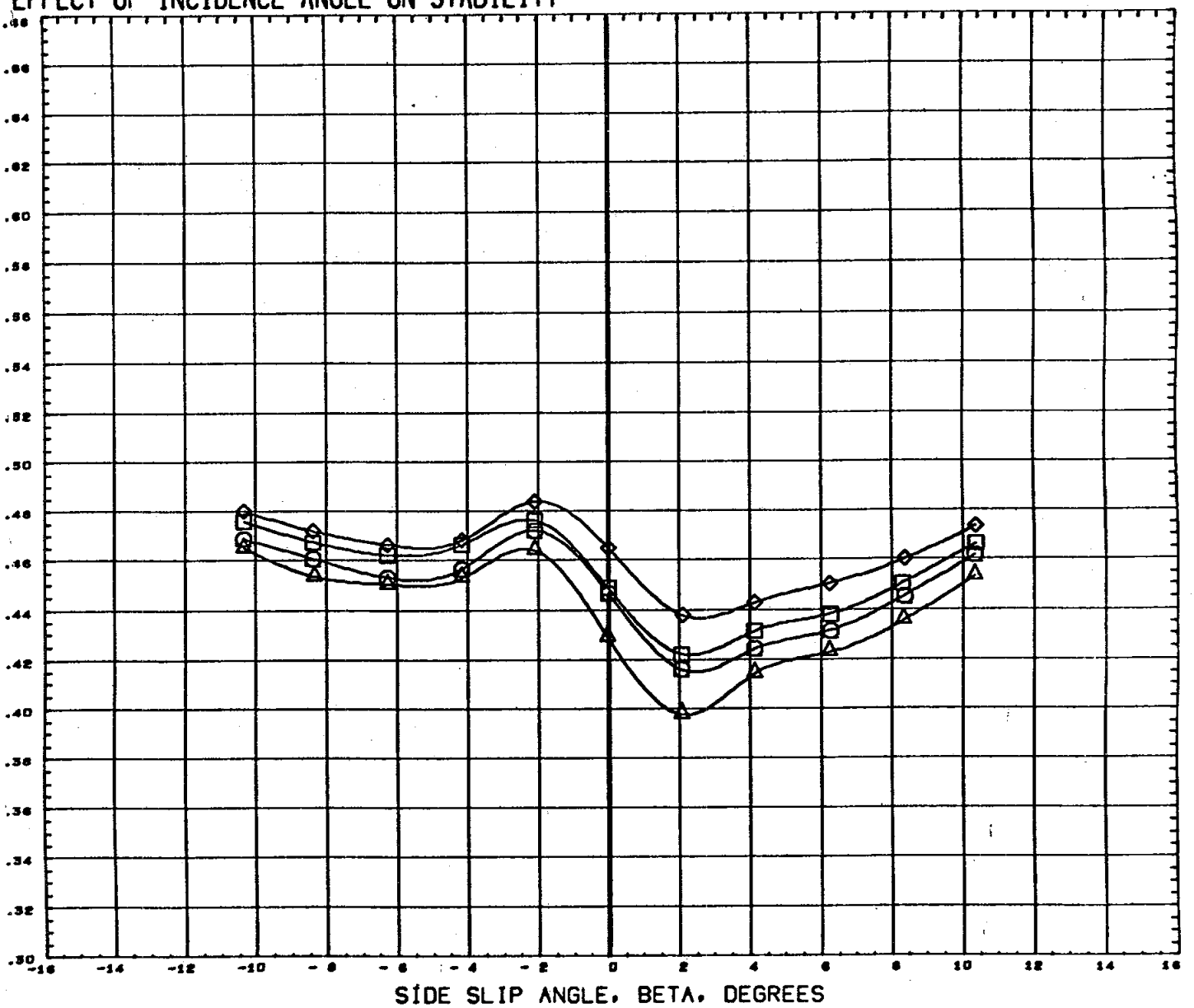
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF INCIDENCE ANGLE ON STABILITY



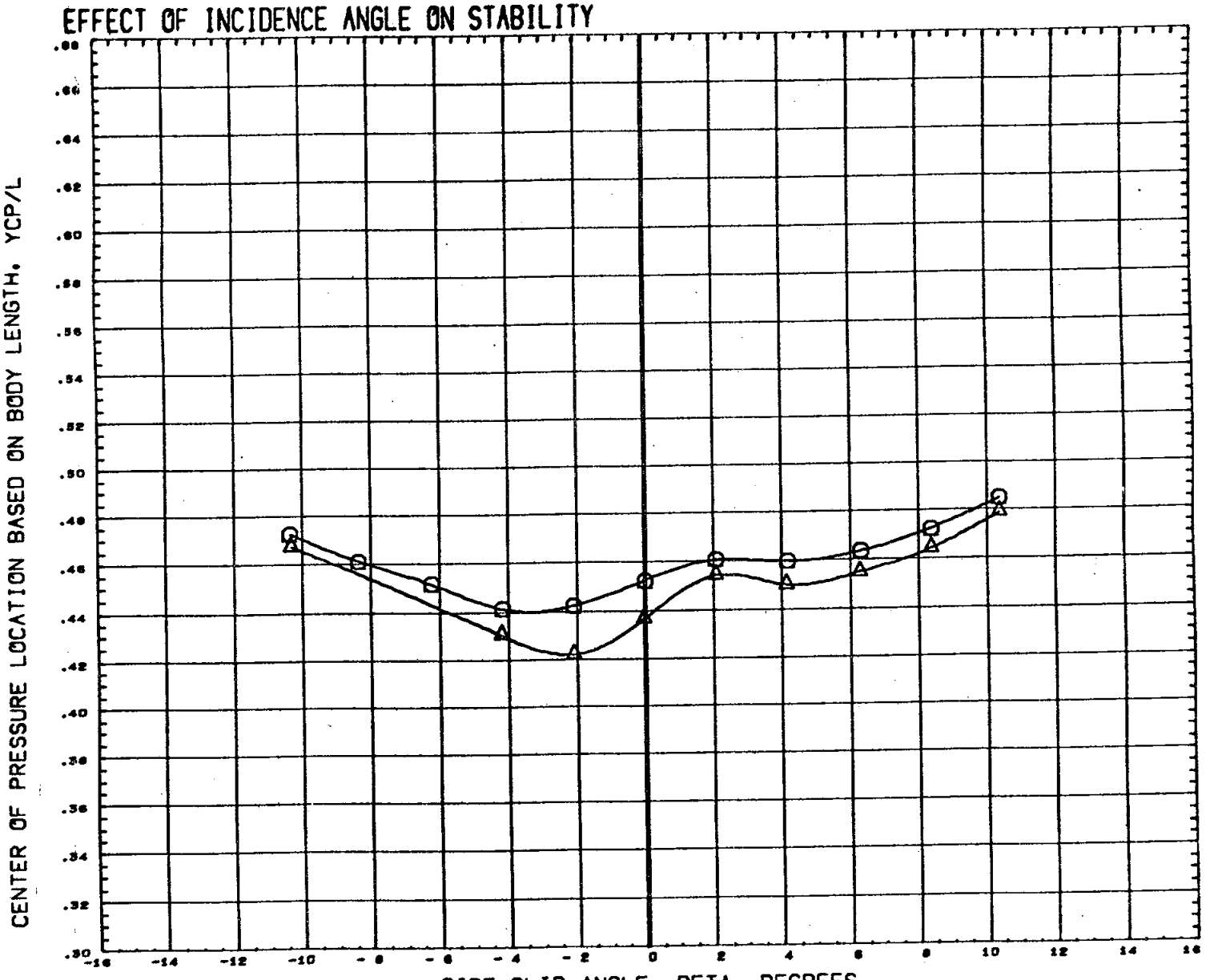
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
90.000	-1.200	0.000	0.000
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	0.000
90.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF INCIDENCE ANGLE ON STABILITY



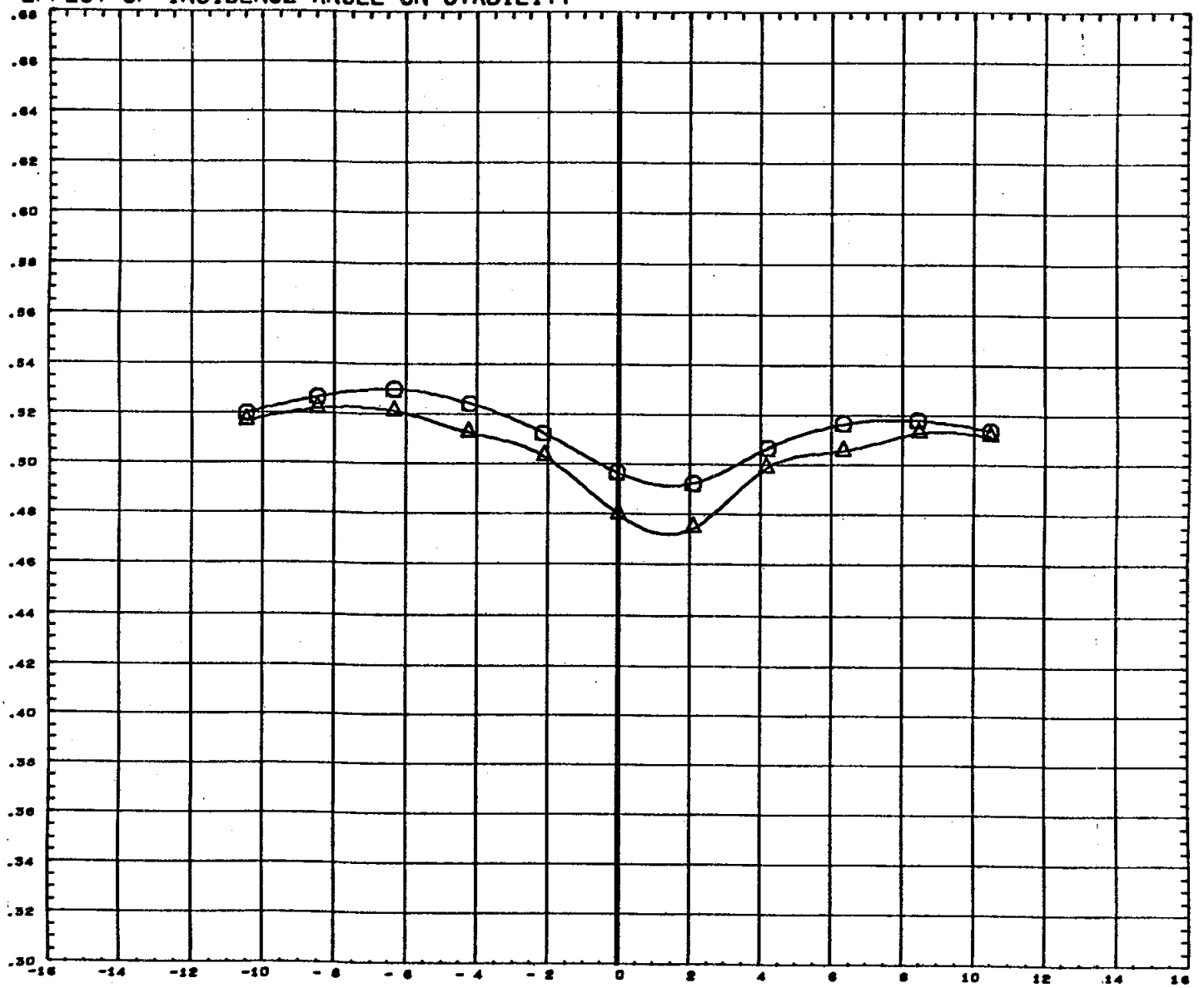
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF INCIDENCE ANGLE ON STABILITY



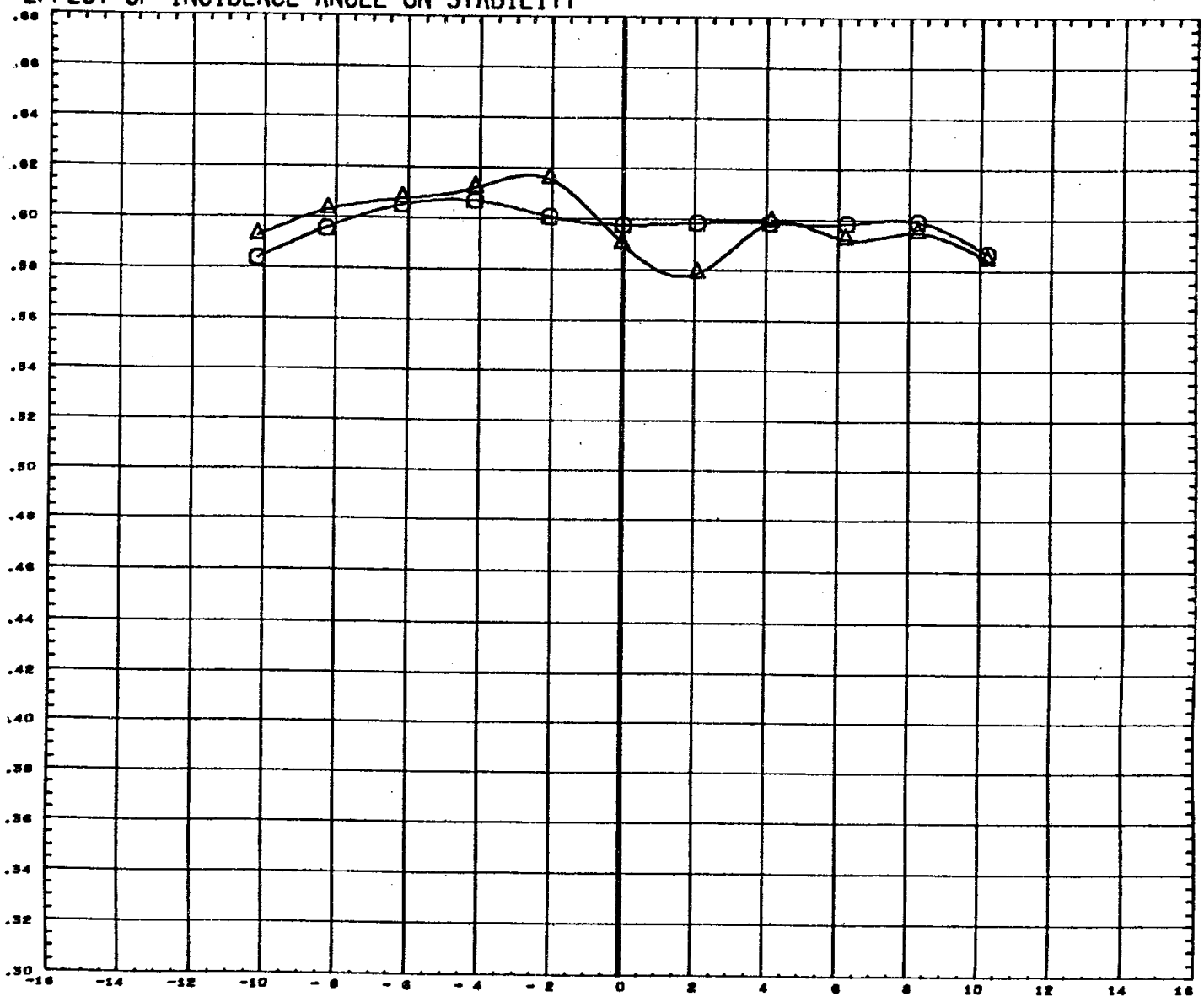
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF INCIDENCE ANGLE ON STABILITY



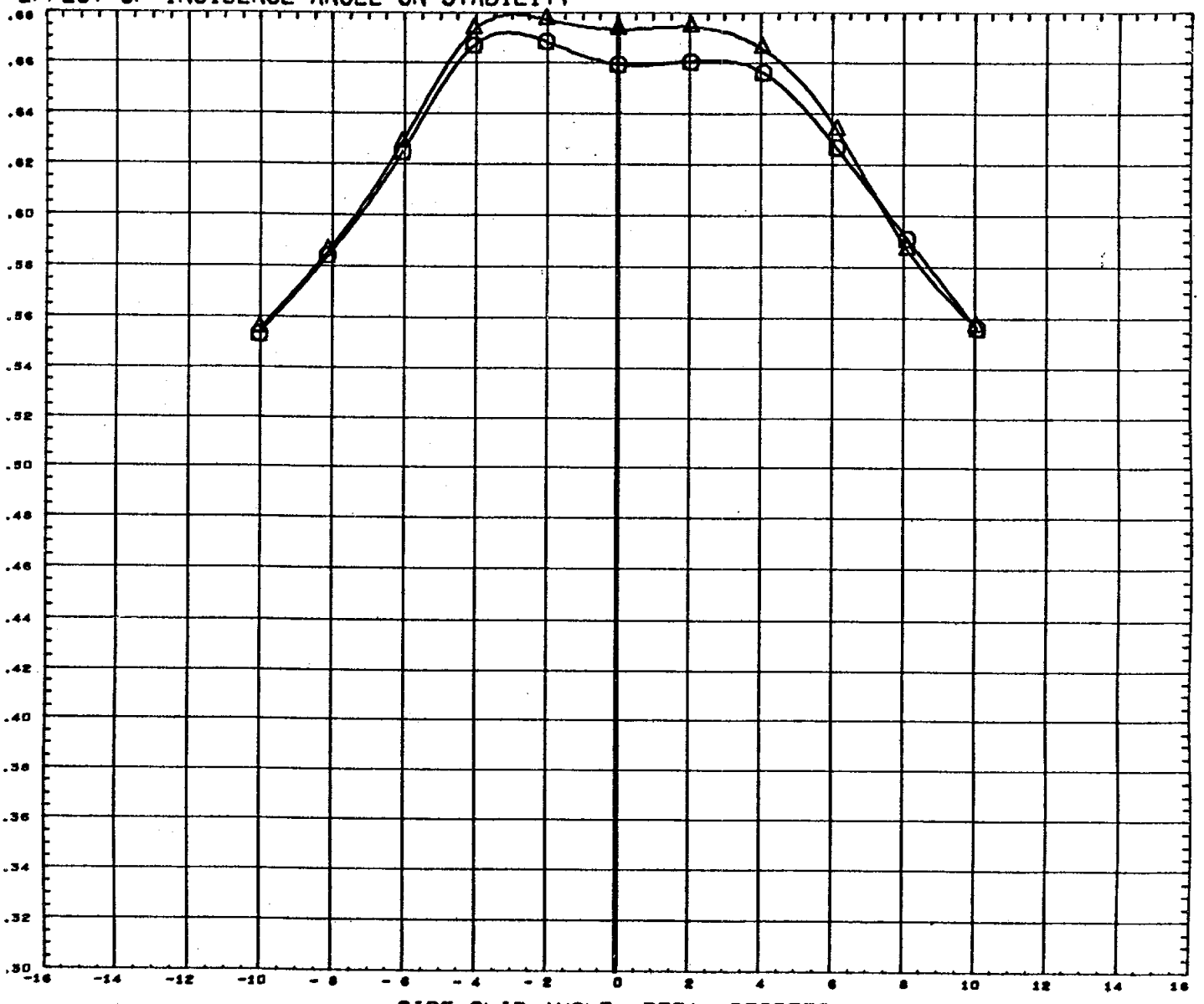
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF INCIDENCE ANGLE ON STABILITY



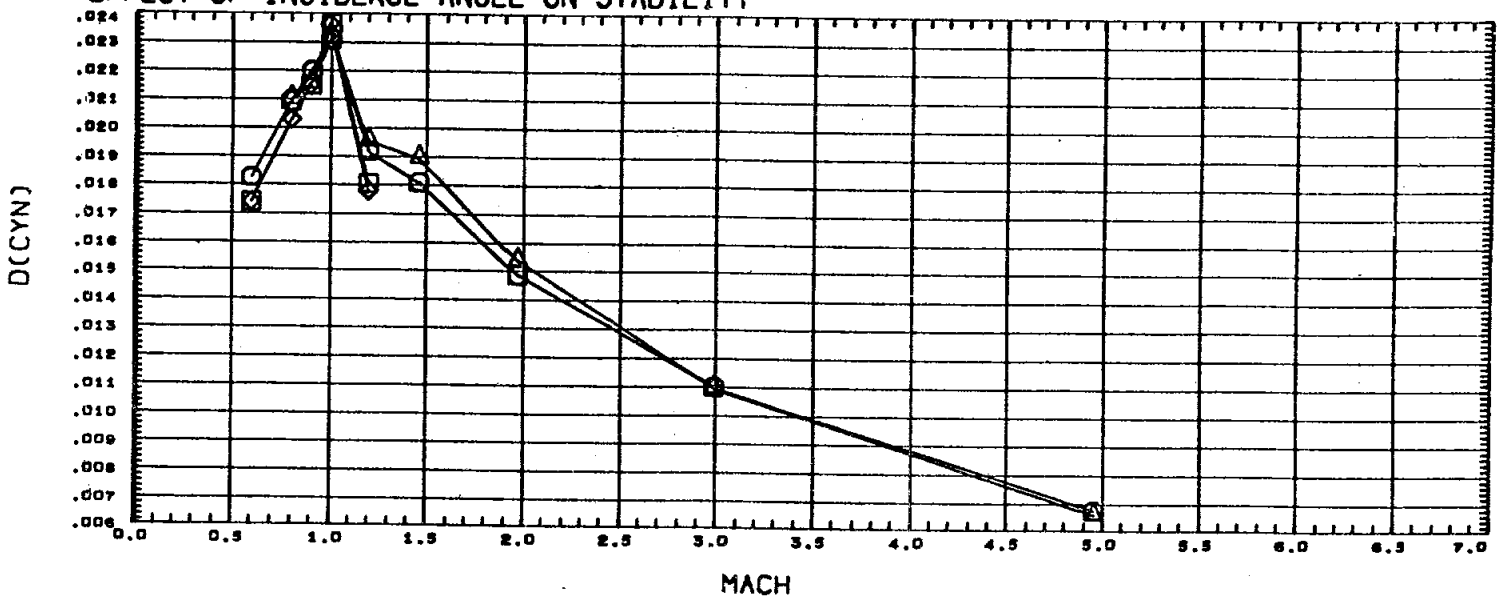
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77017)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

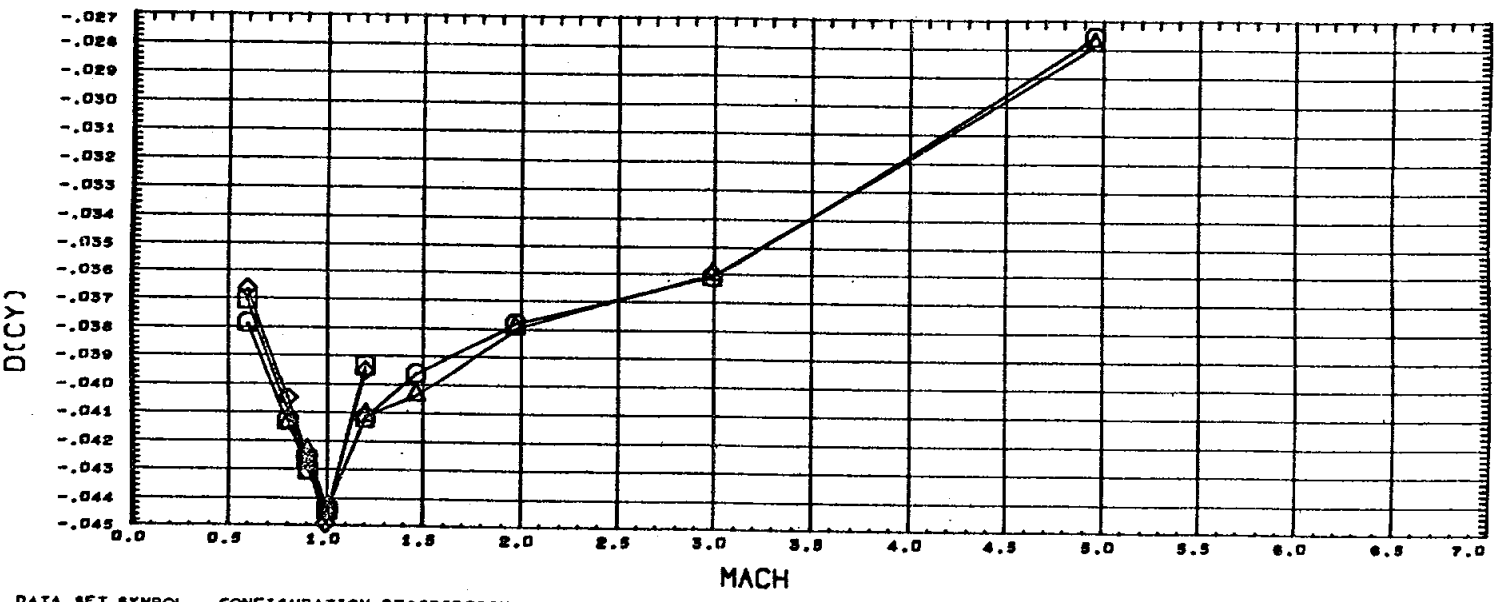
PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF INCIDENCE ANGLE ON STABILITY



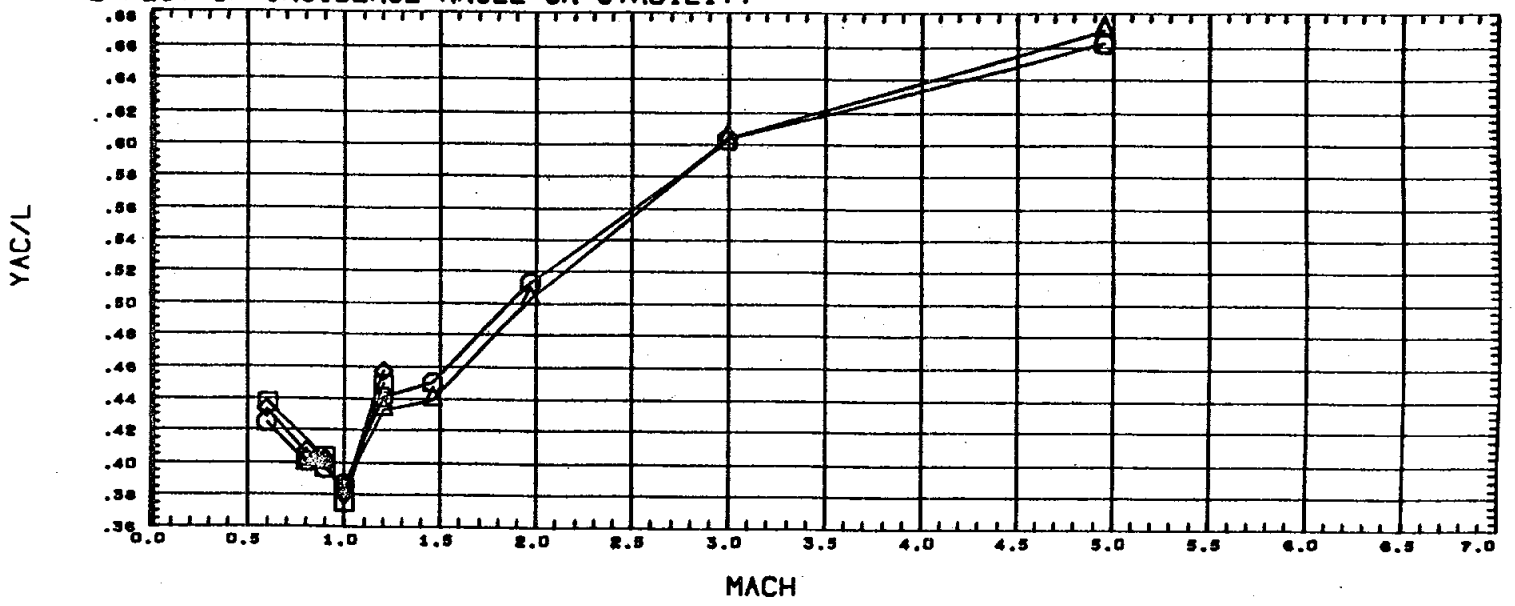


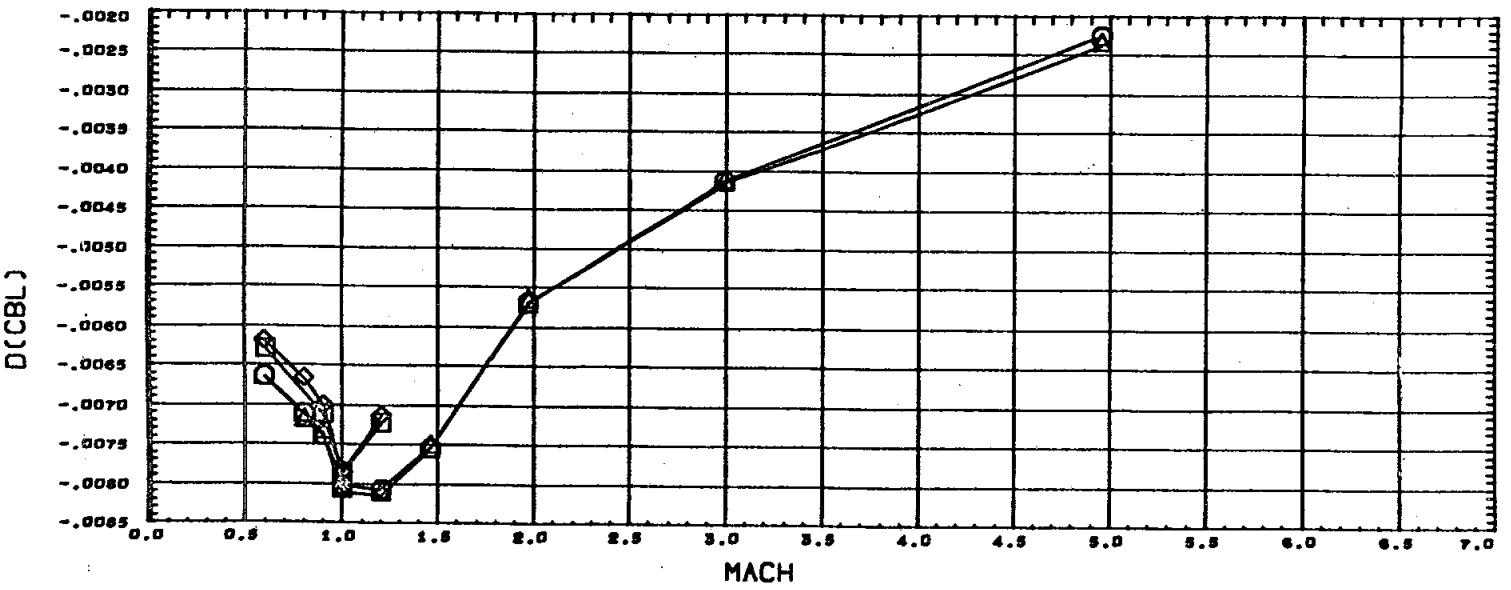
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	◇	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	□	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF INCIDENCE ANGLE ON STABILITY



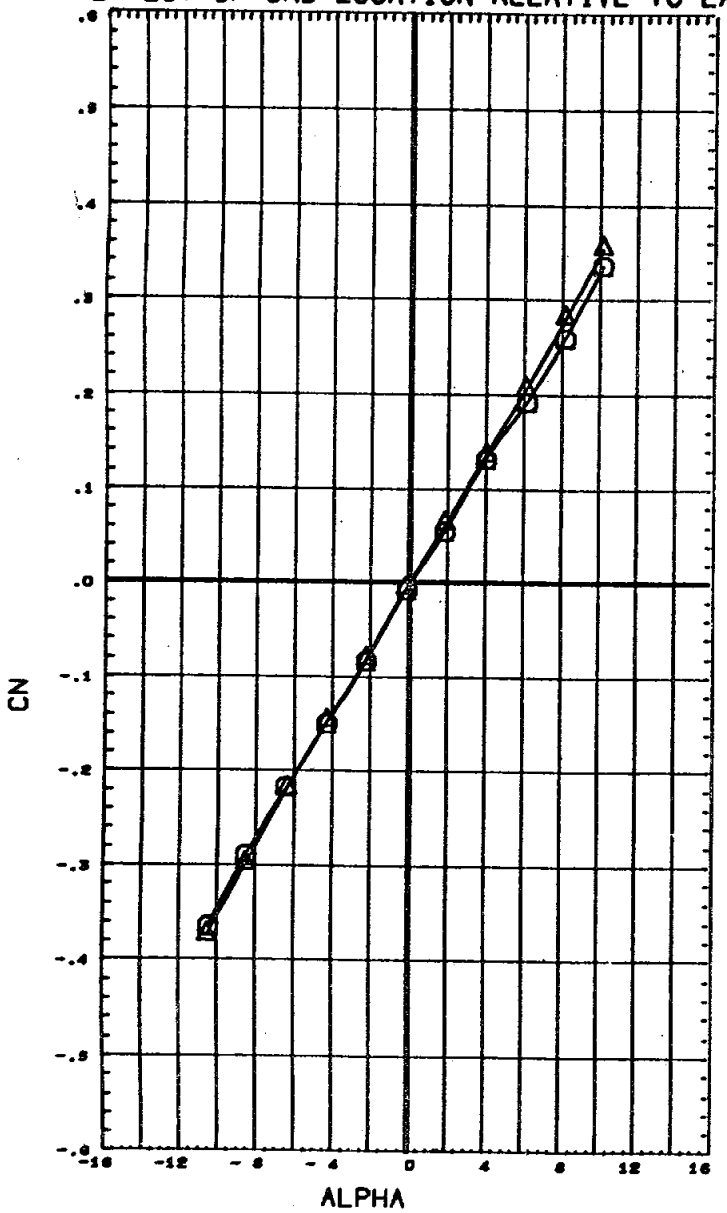


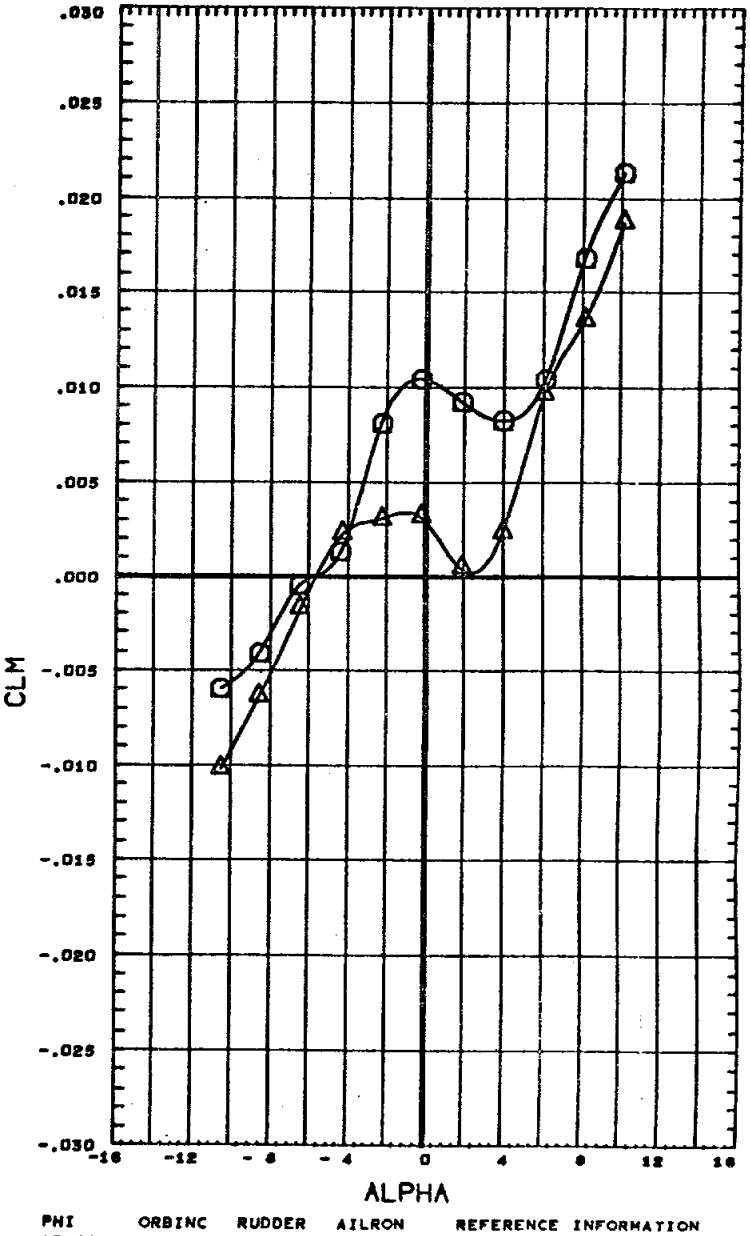
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(C77019)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77015)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77021)	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77017)	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(G77002) M556(IA1) NAR ATP BL LV (T3)(S1)

(G77004) M556(IA1) NAR ATP BL LV (T3)(S1)

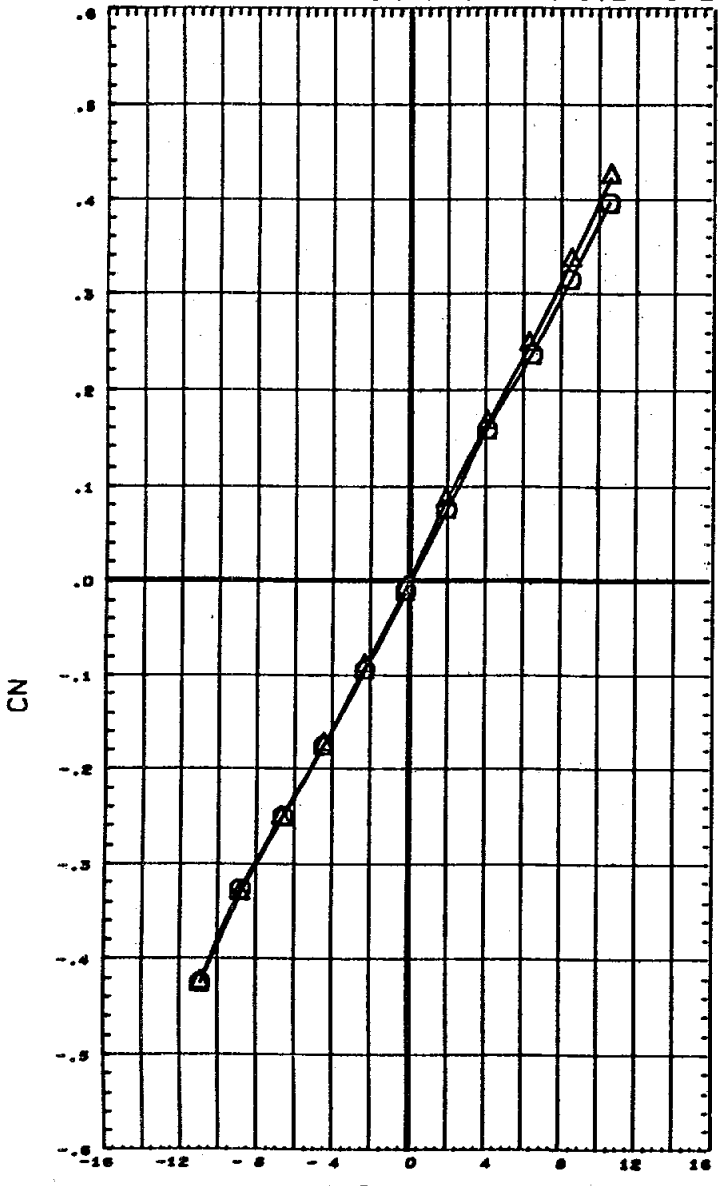
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

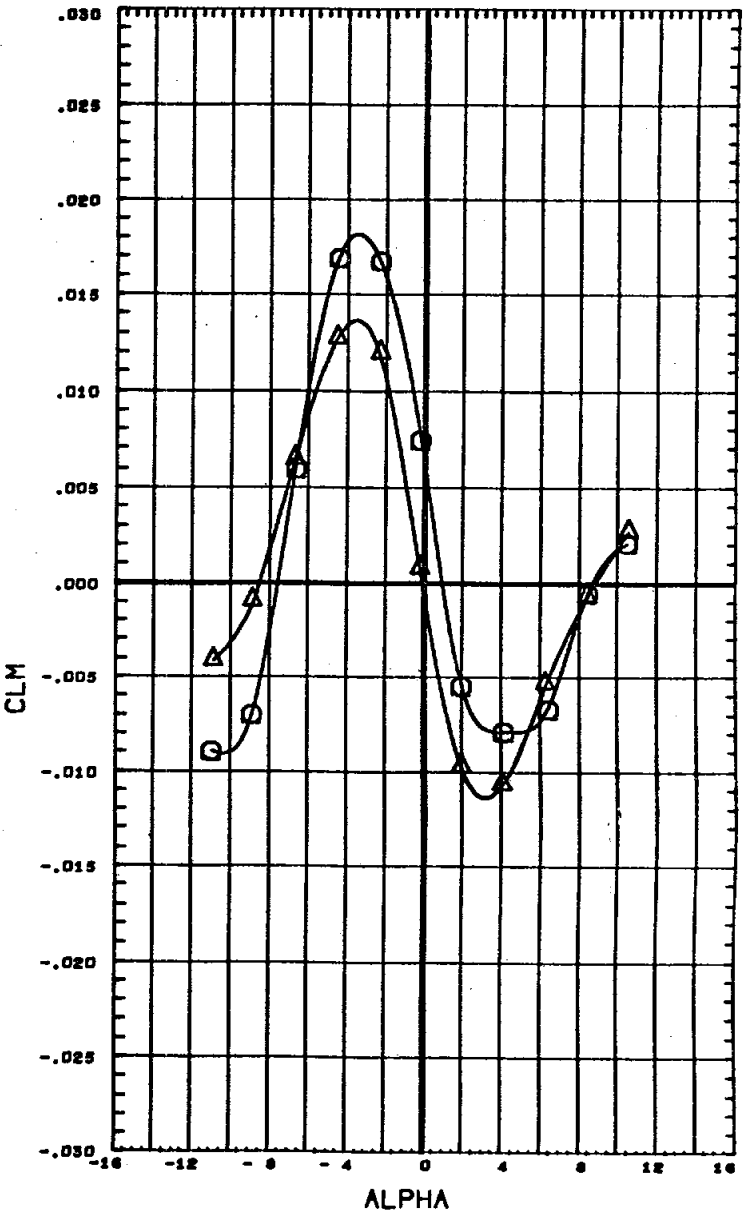
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





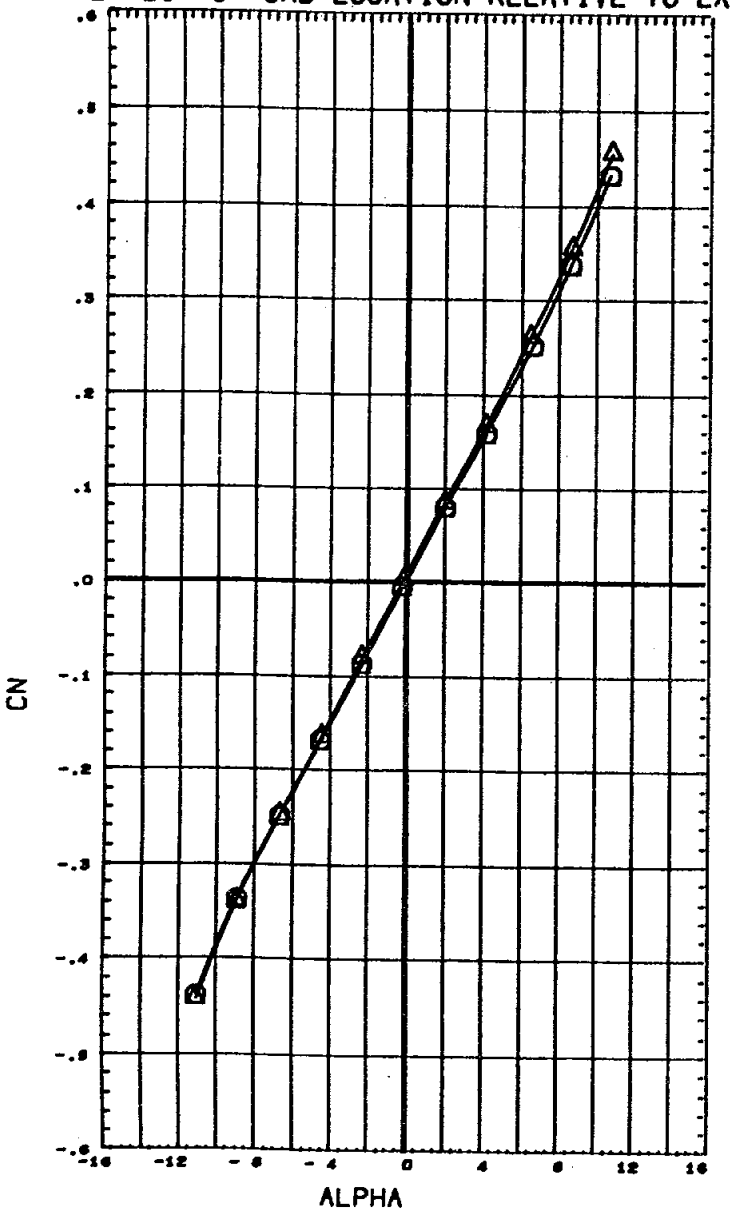
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

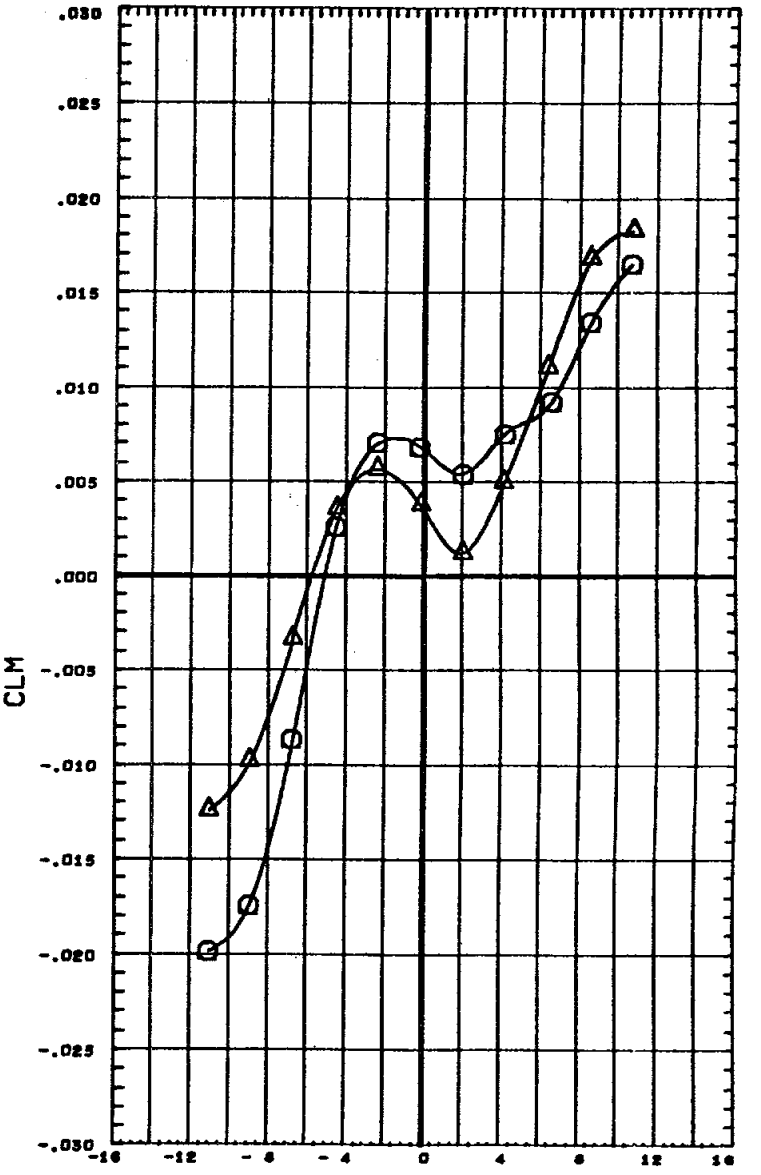
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





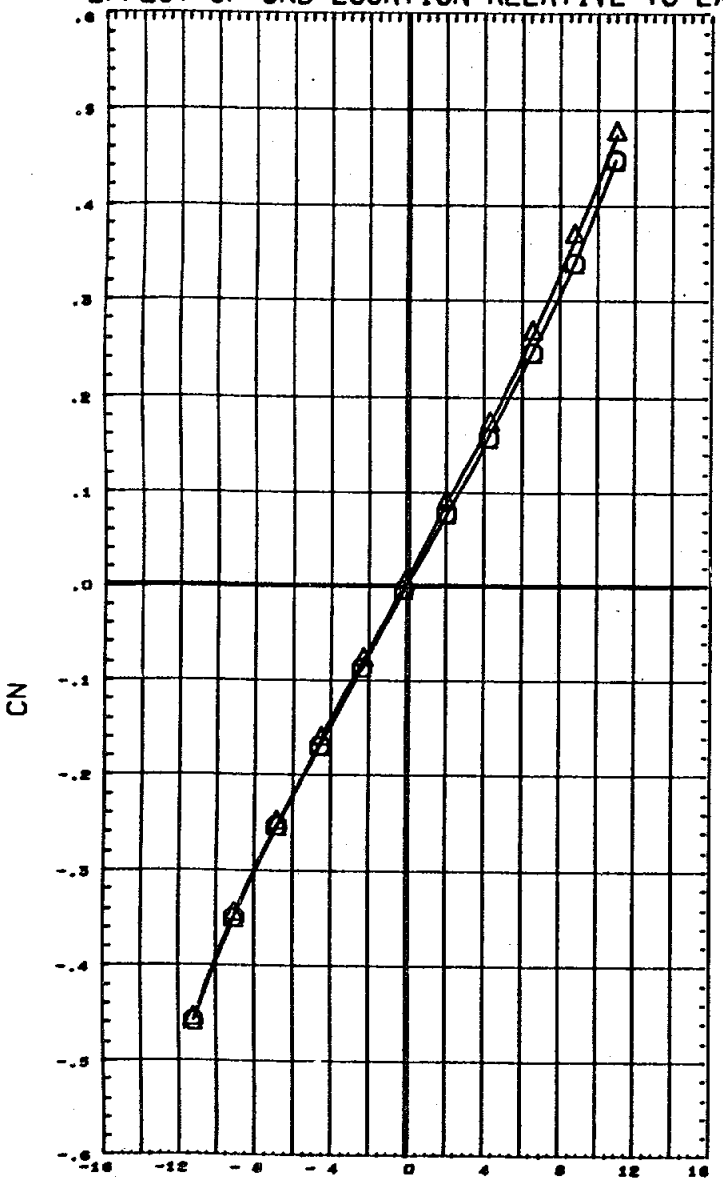
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

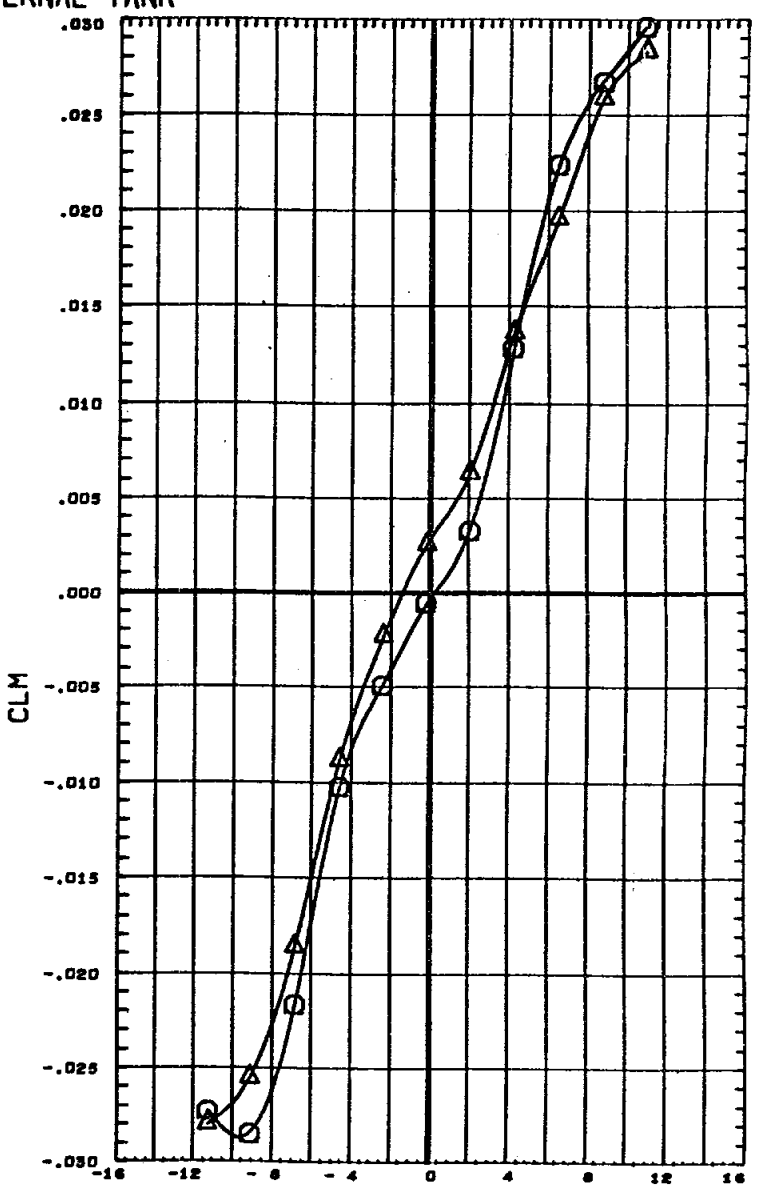
EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(677002) M556(IA1) NAR ATP BL LV (T3)(S1)

(677004) M556(IA1) NAR ATP BL LV (T3)(S1)



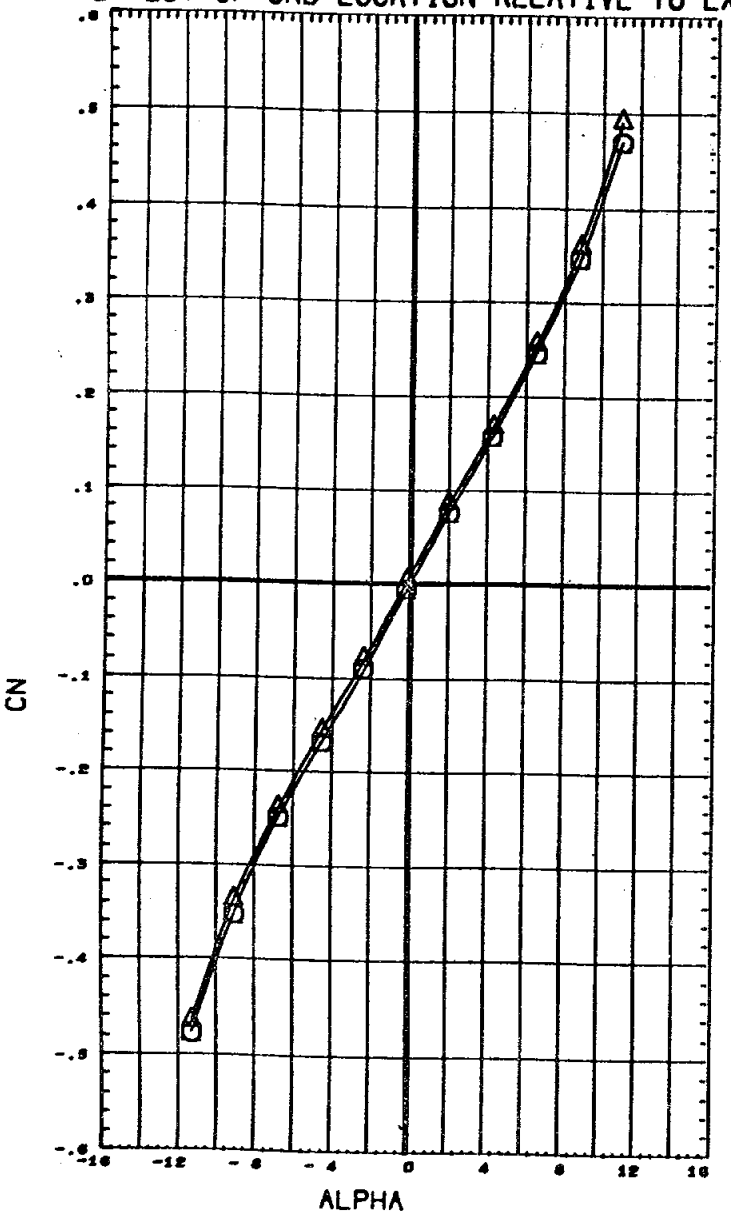
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

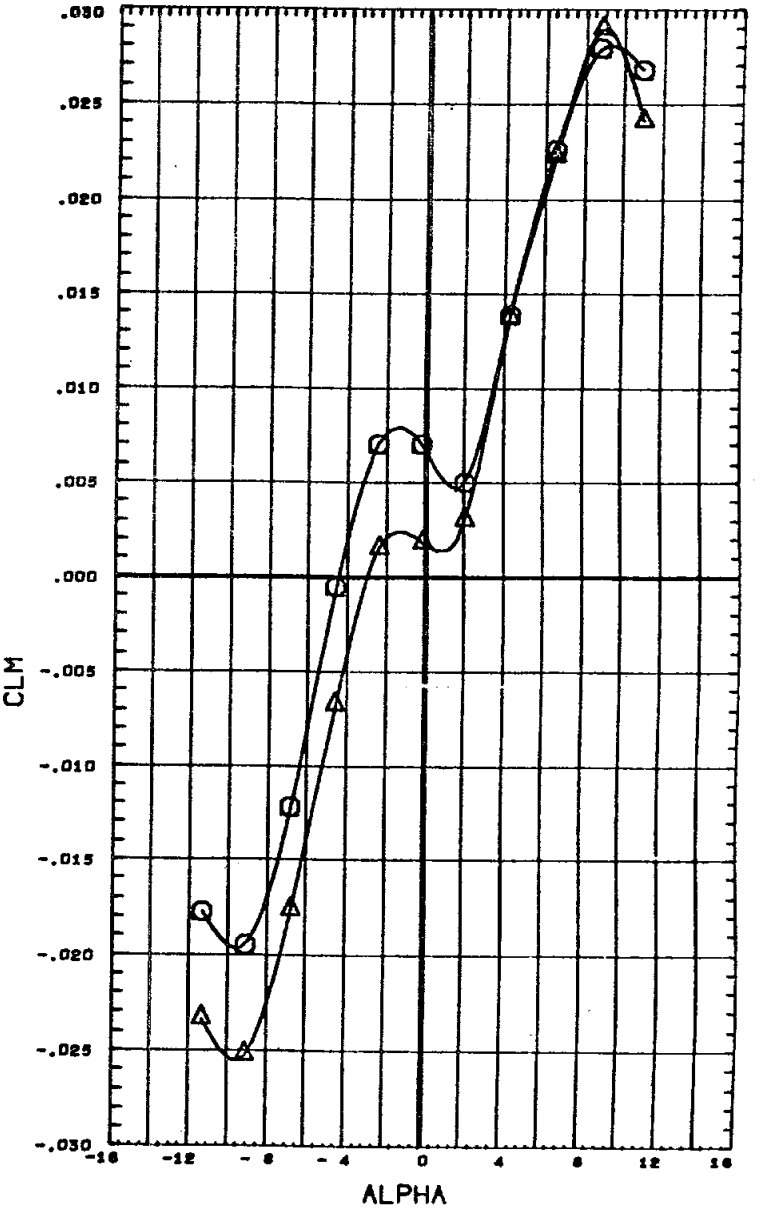
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(677002) M556(IA1) NAR ATP BL LV (T3)(S1)

(677004) M556(IA1) NAR ATP BL LV (T3)(S1)

PHI ORBINC RUDDER AILRON

80.000

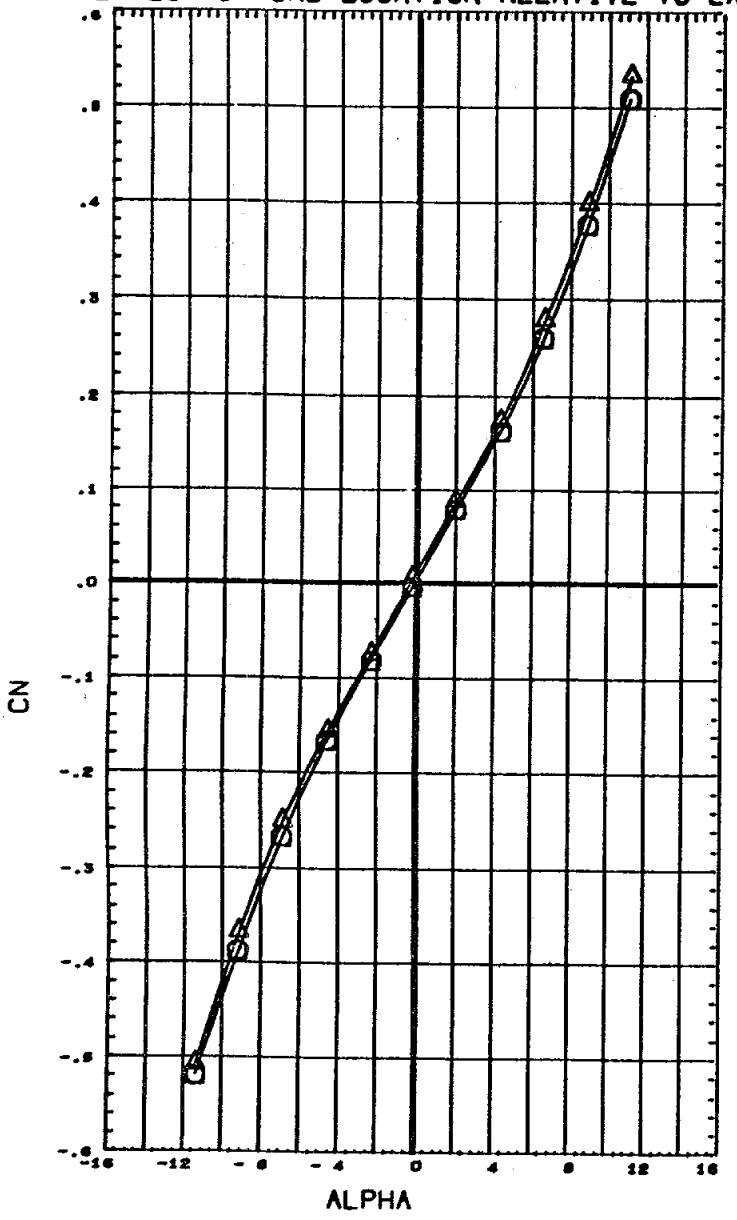
90.000

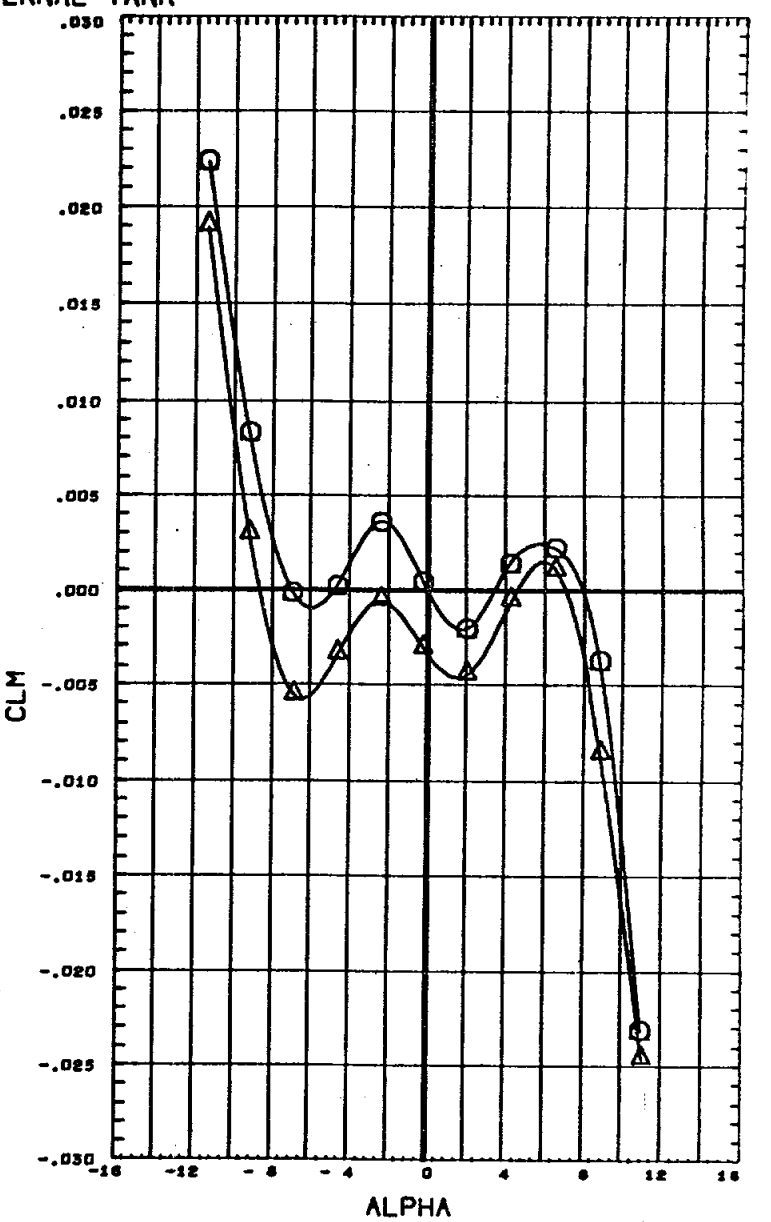
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





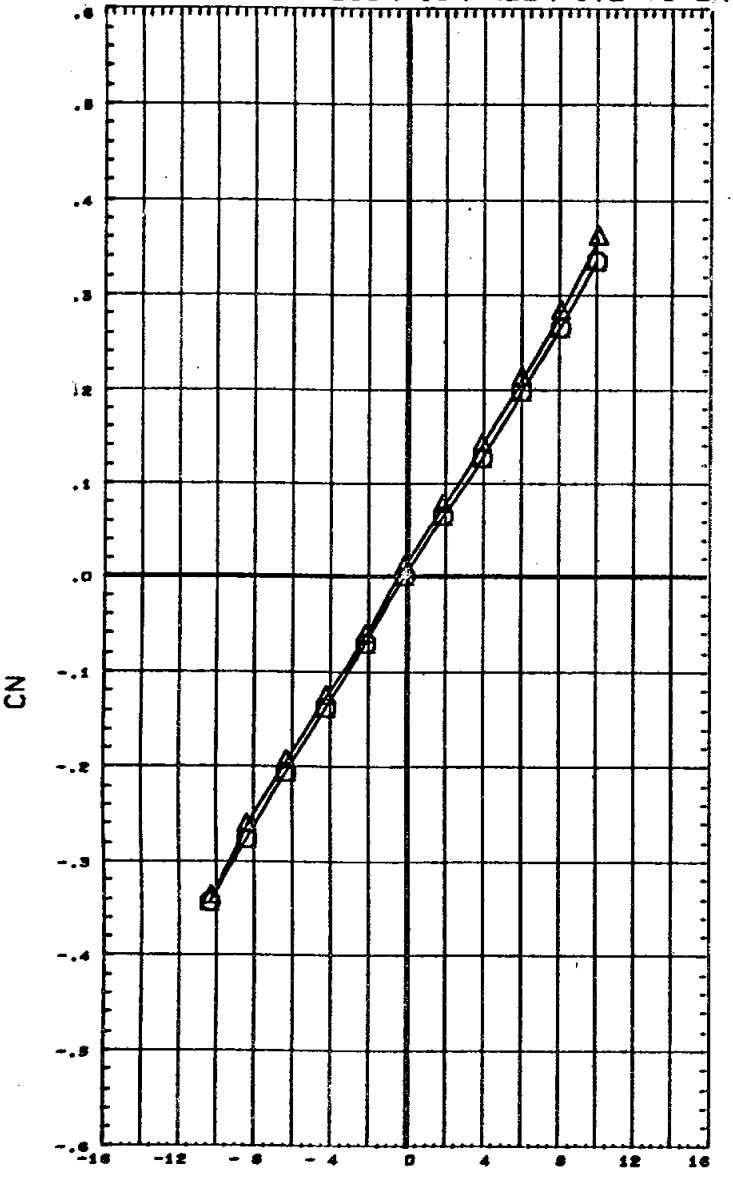
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

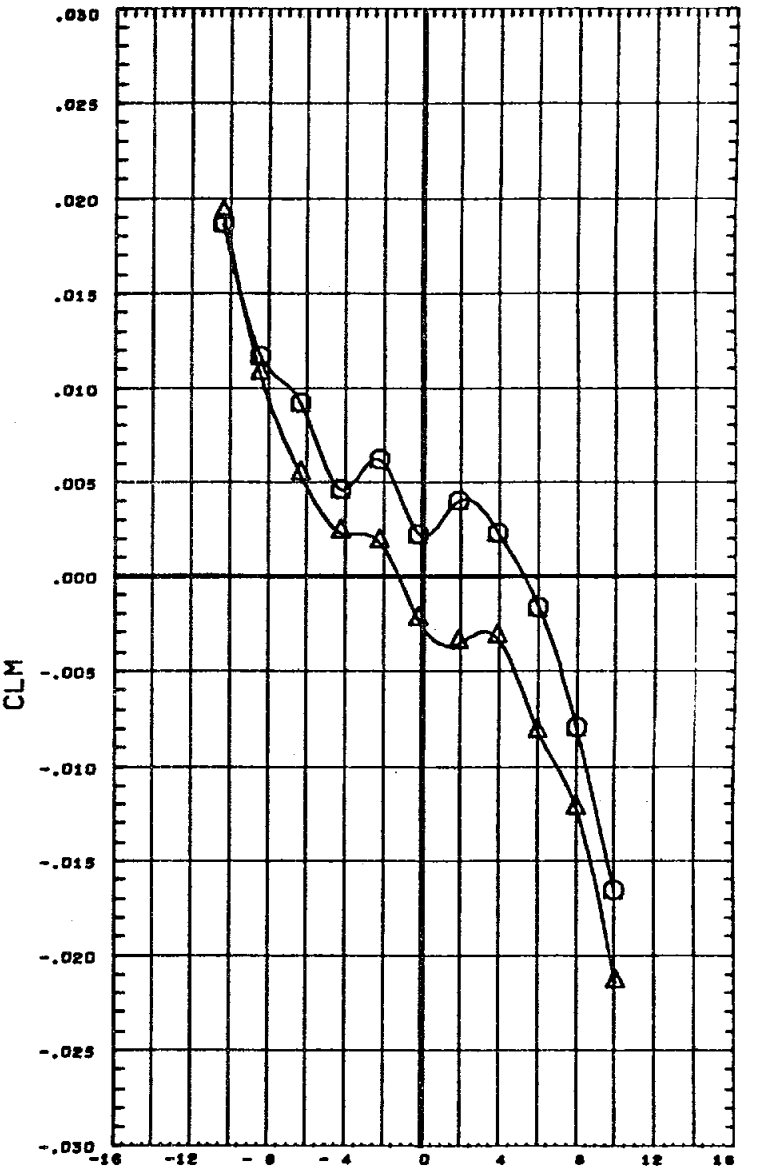
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





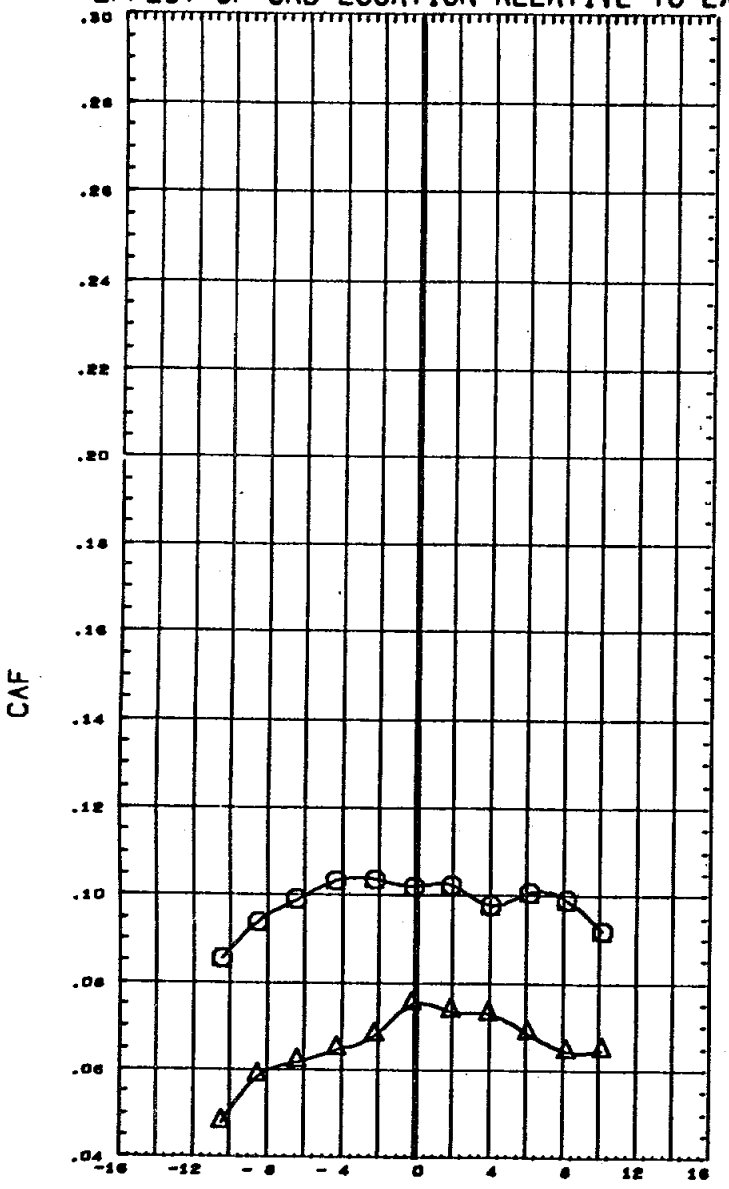
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

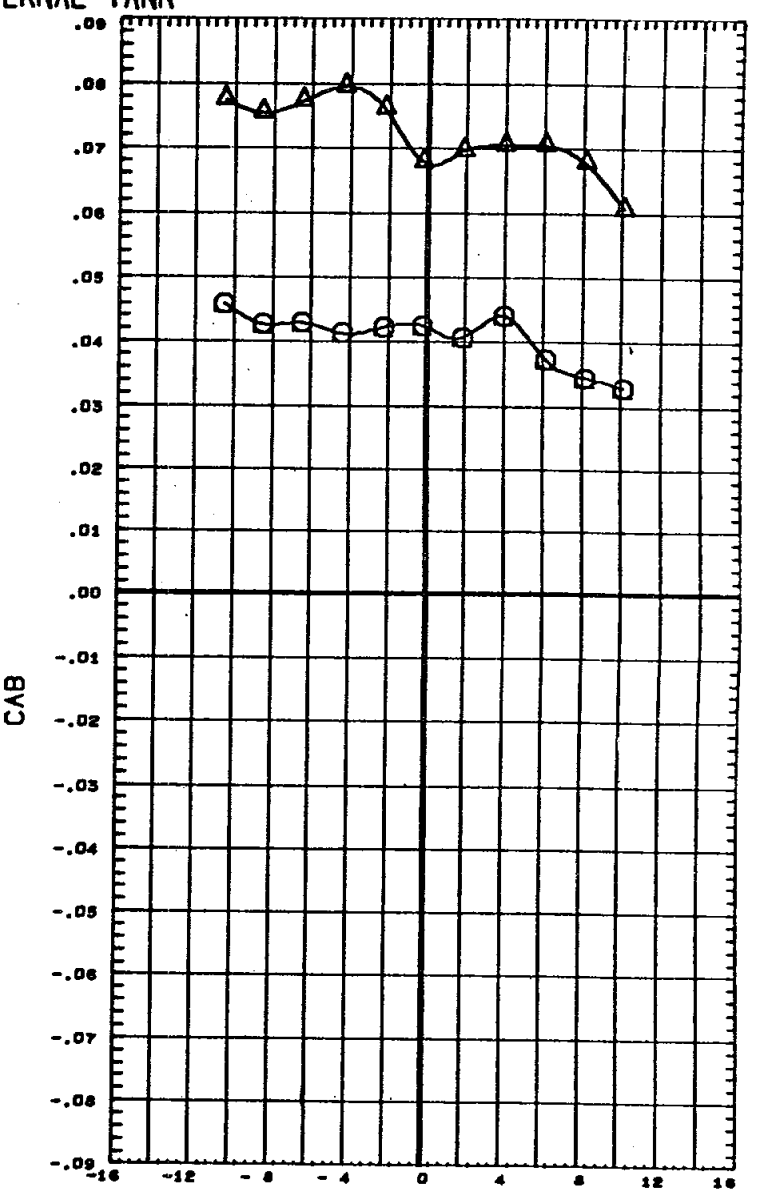
PHI	ORBINC	RUDDER	AILRON
60.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





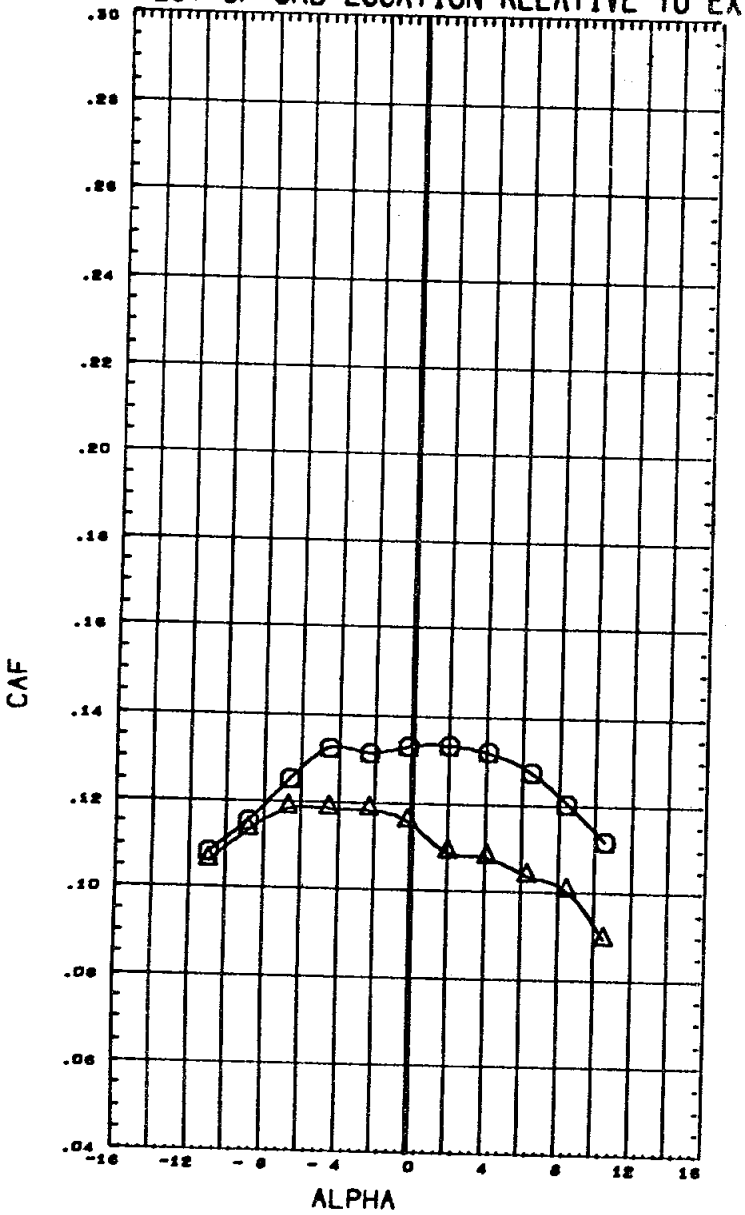
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

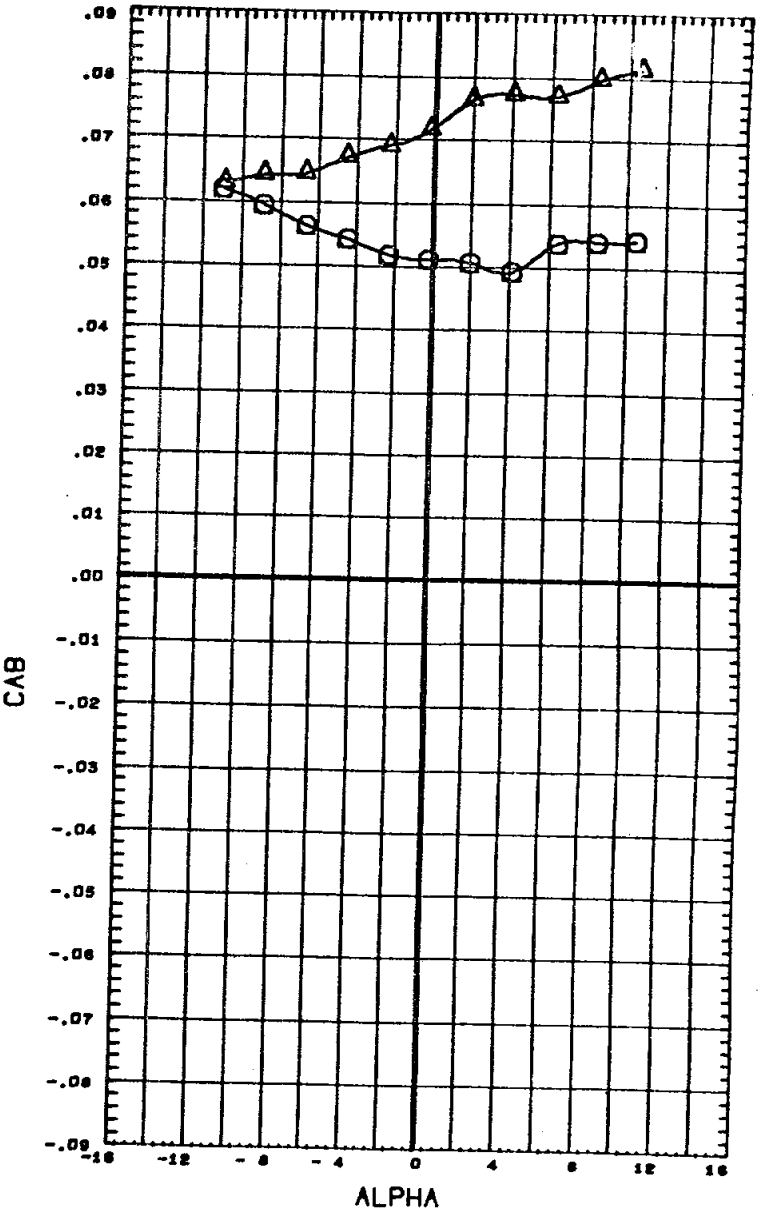
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)		M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)		M556(IA1) NAR ATP BL LV (T3)(S1)

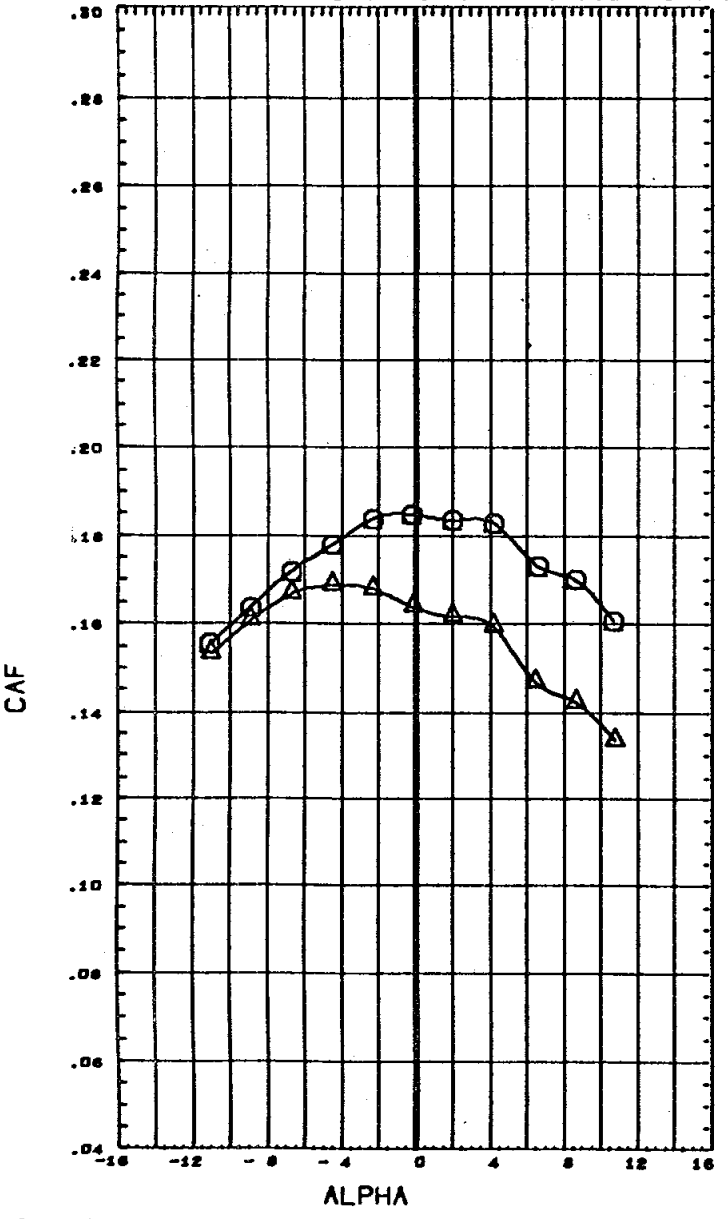
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

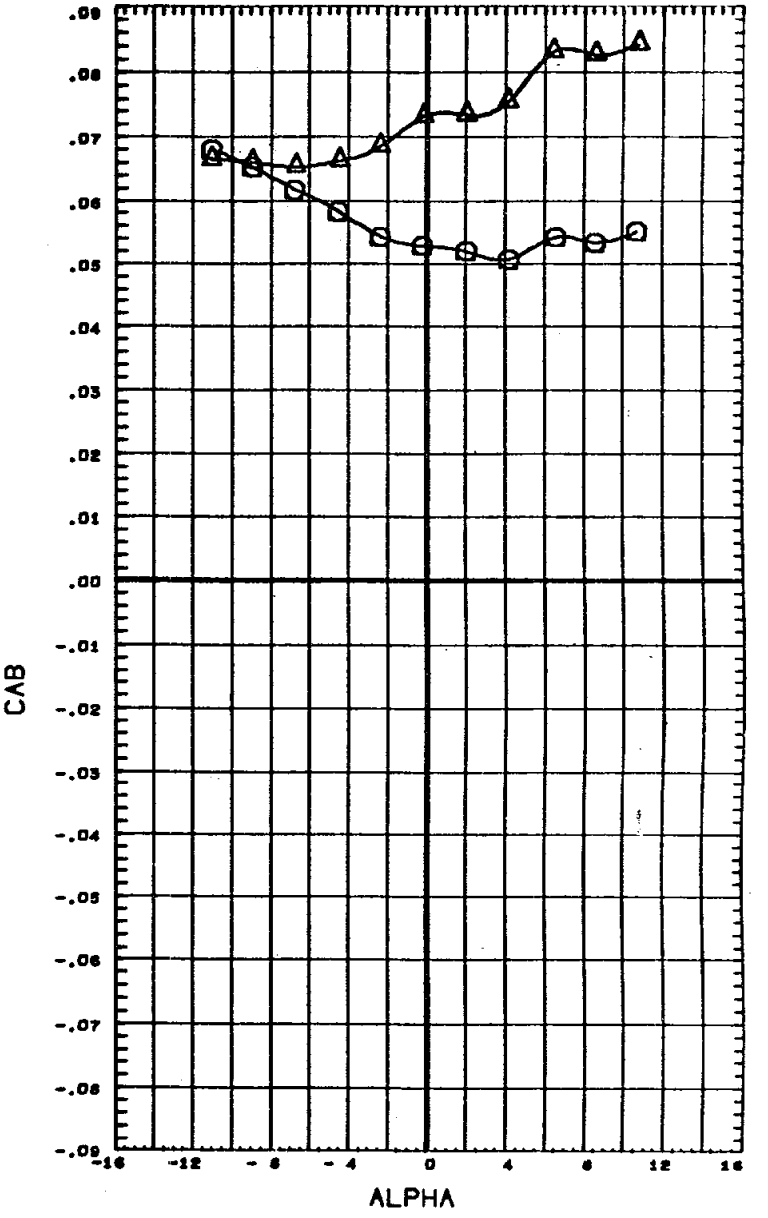
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





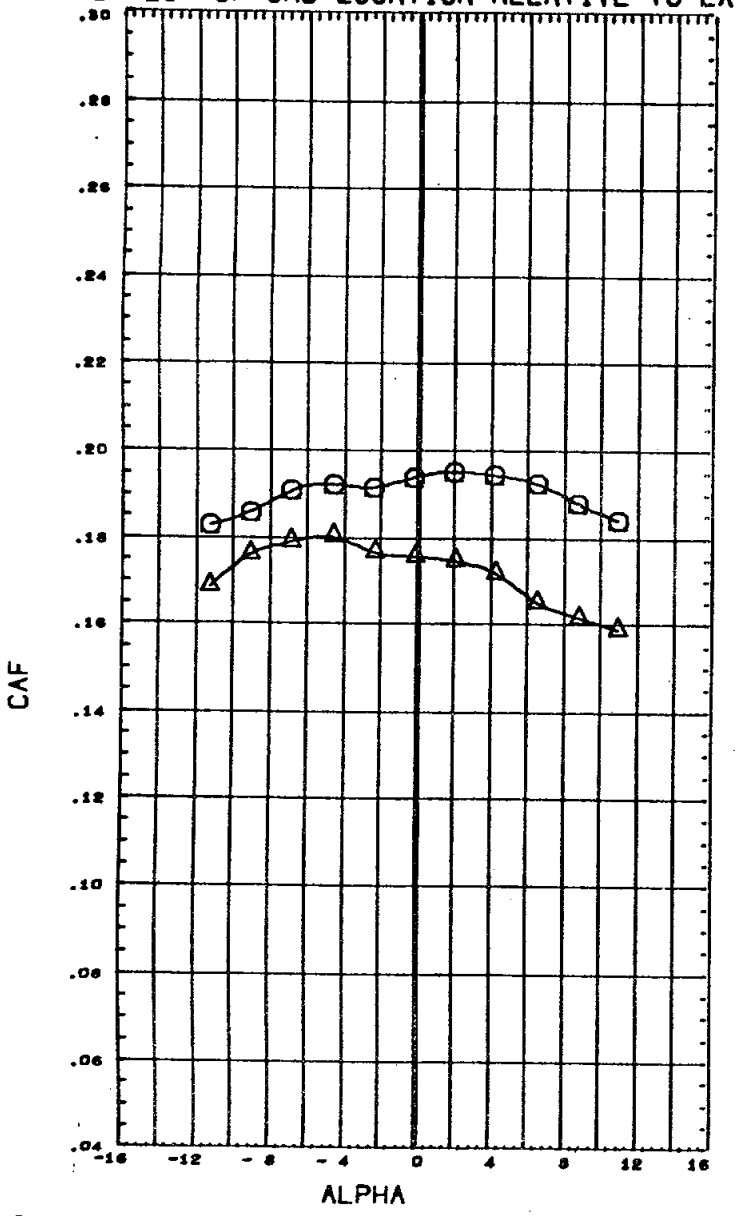
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

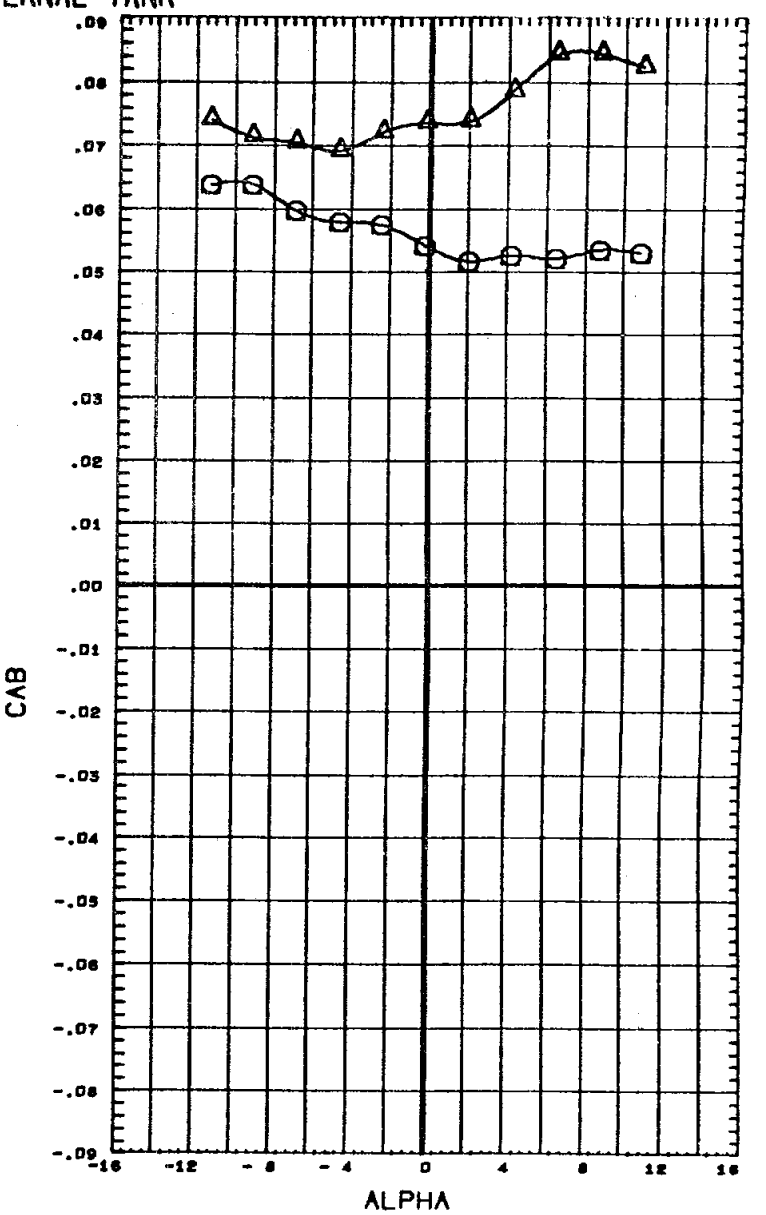
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

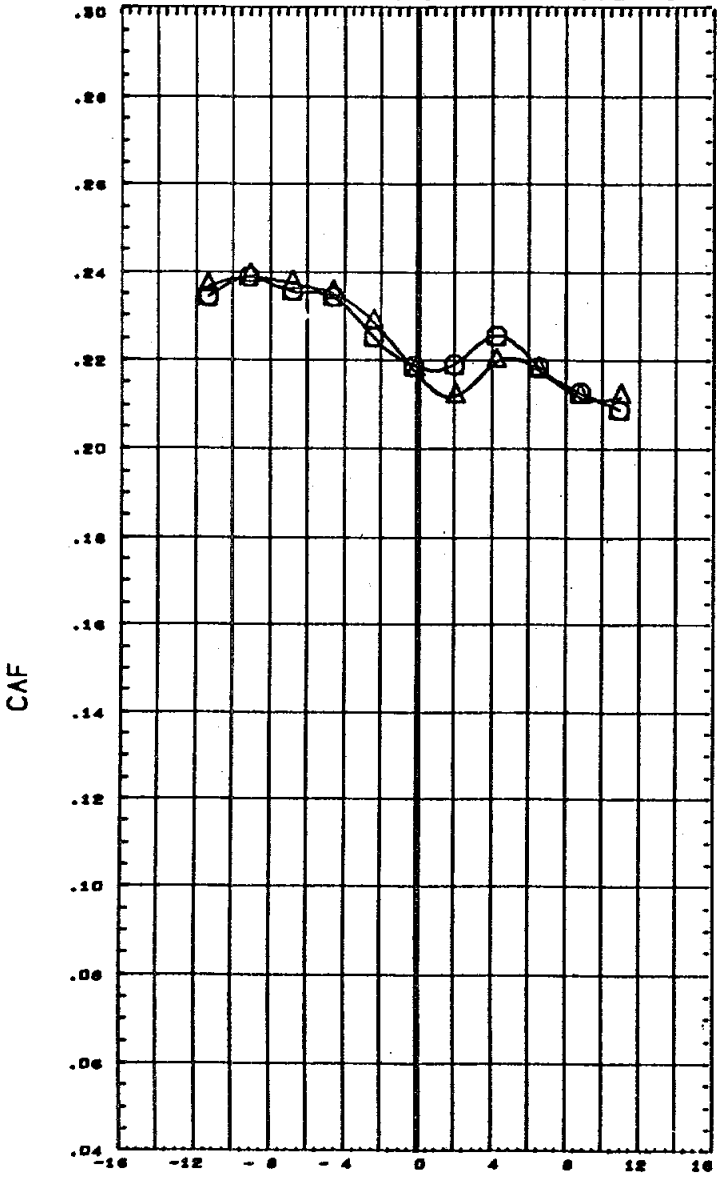
PHI
80.000
90.000

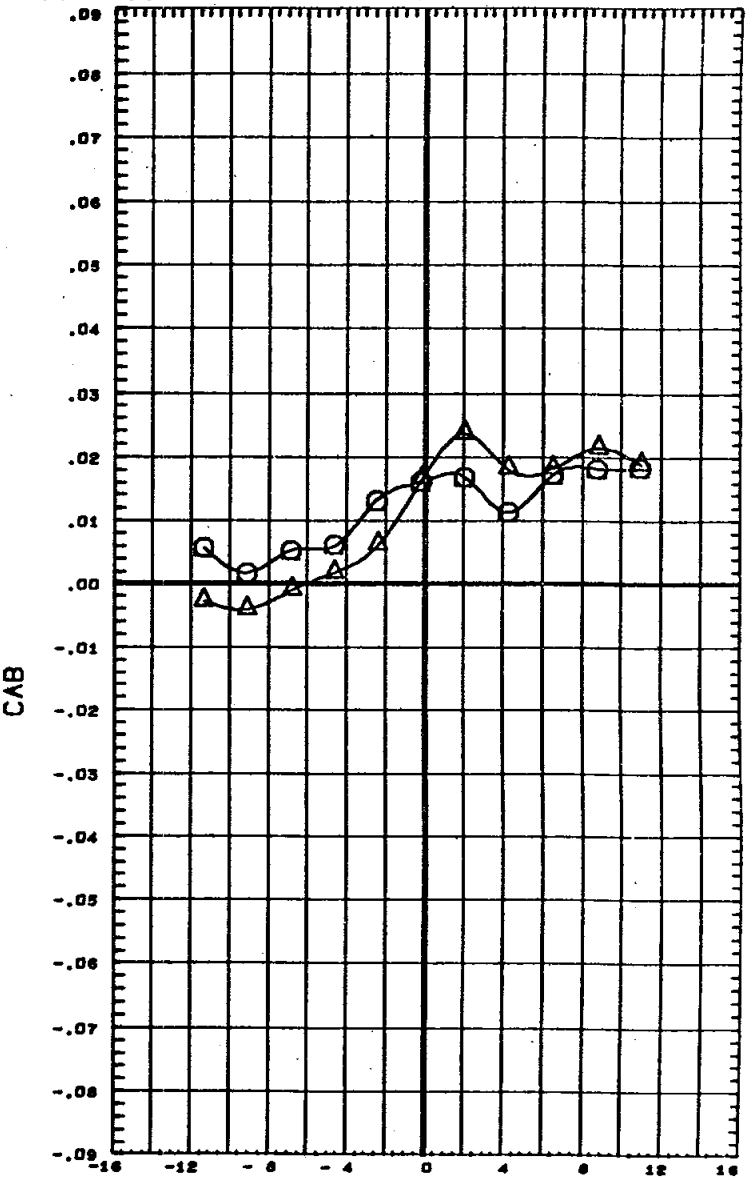
ORBINC	RUDDER	AILRON

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





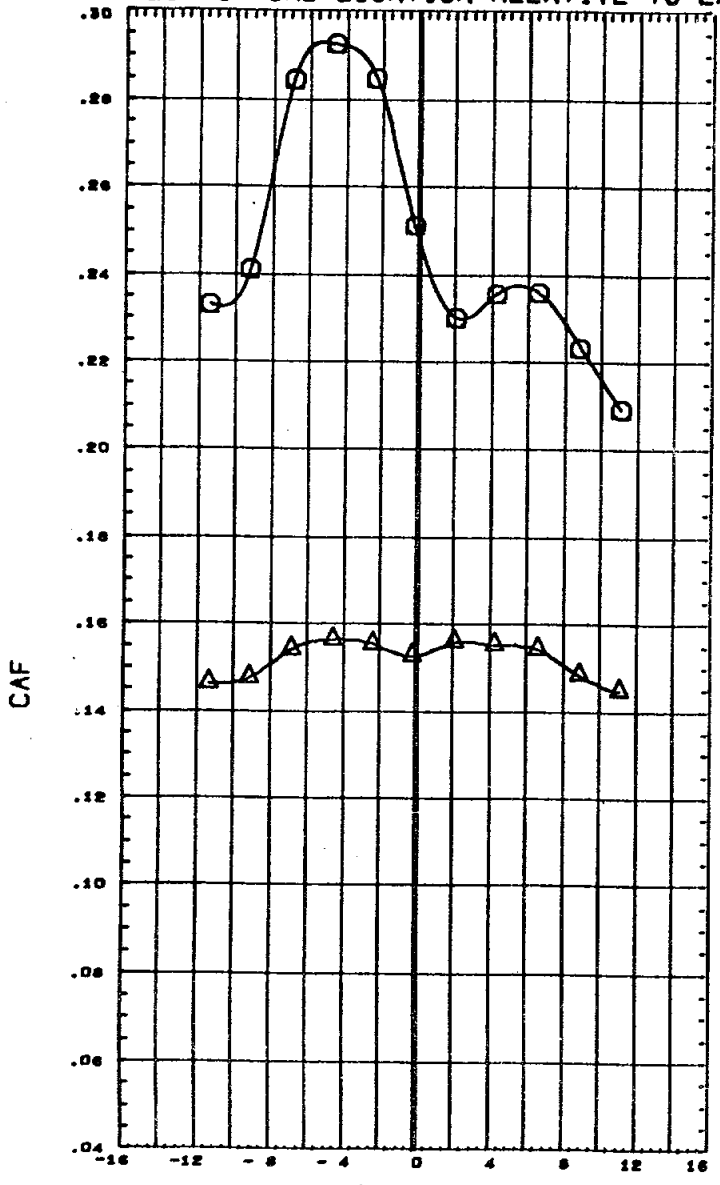
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(G77004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

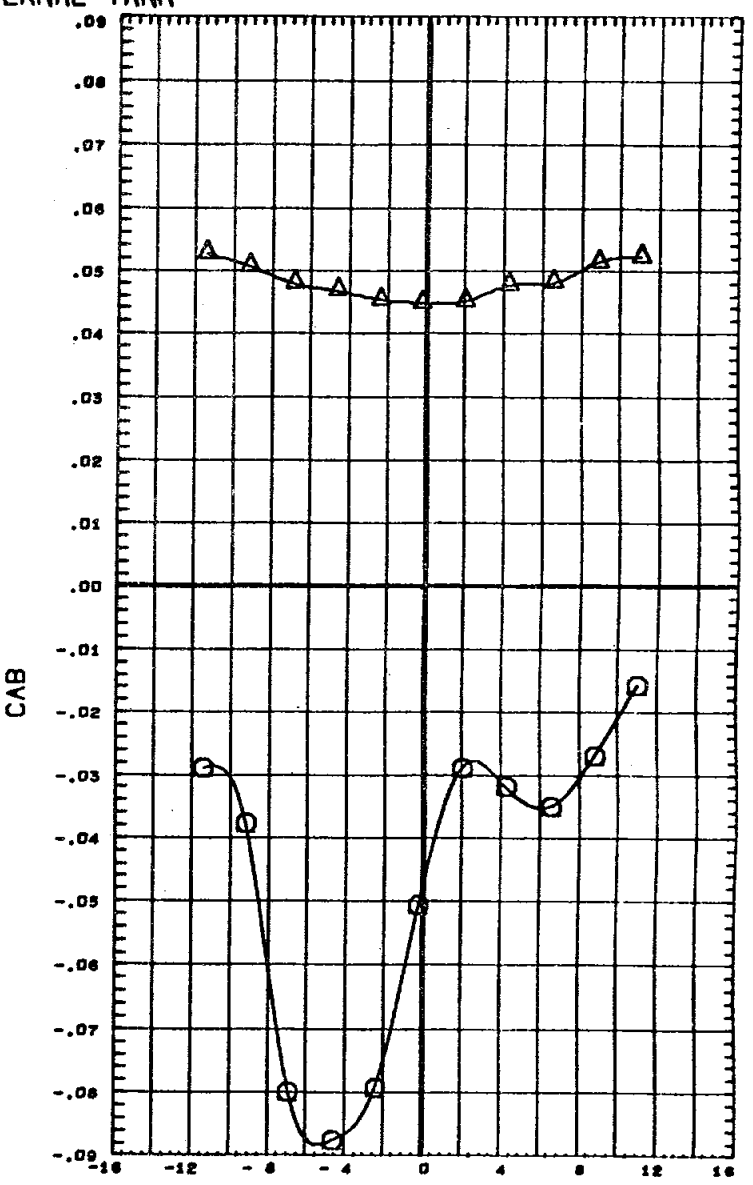
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(677002) M556(IA1) NAR ATP BL LV (T3)(S1)

(677004) M556(IA1) NAR ATP BL LV (T3)(S1)

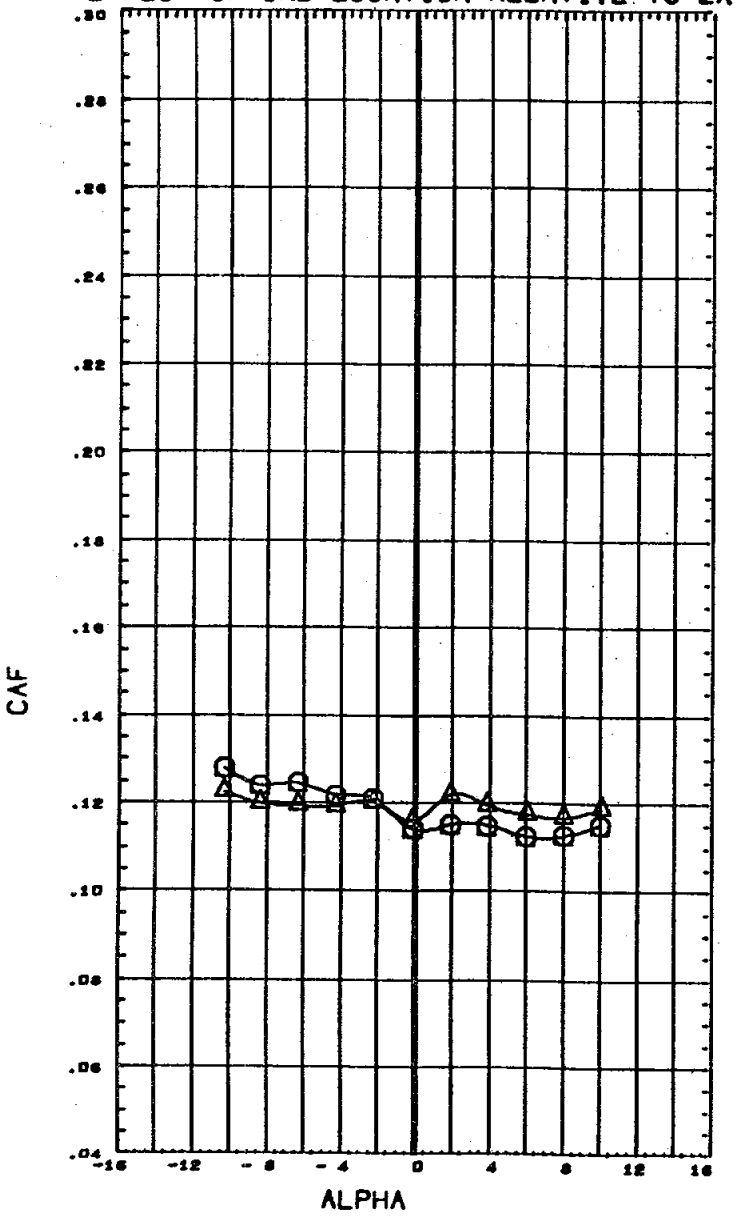
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

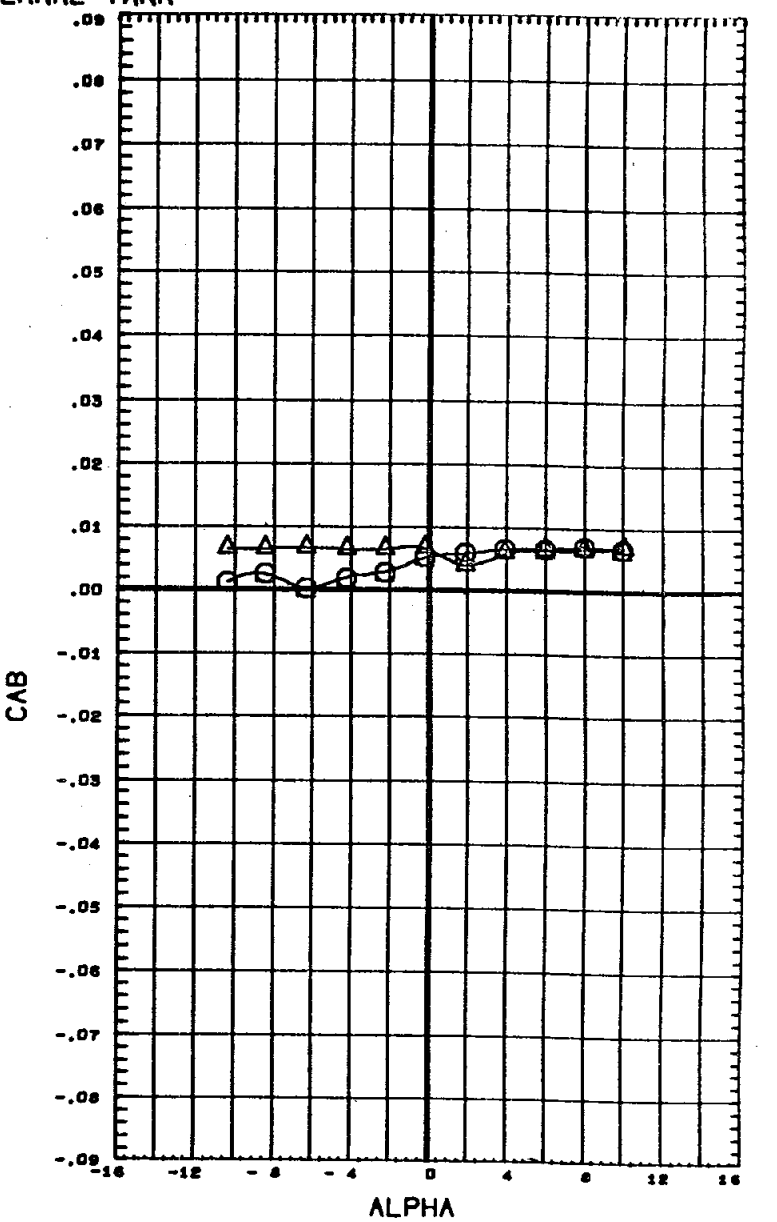
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(G77002) M556(IA1) NAR ATP BL LV (T3)(S1)

(G77004) M556(IA1) NAR ATP BL LV (T3)(S1)

PHI
80.000
90.000

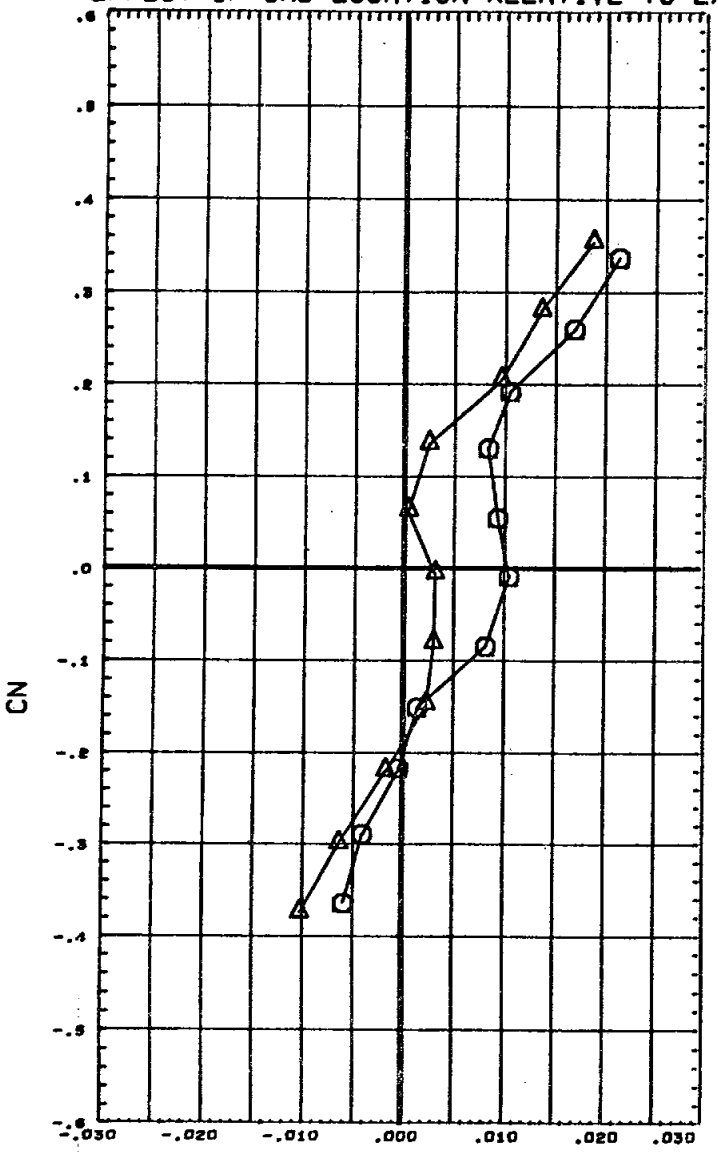
ORBINC RUDDER AILRON

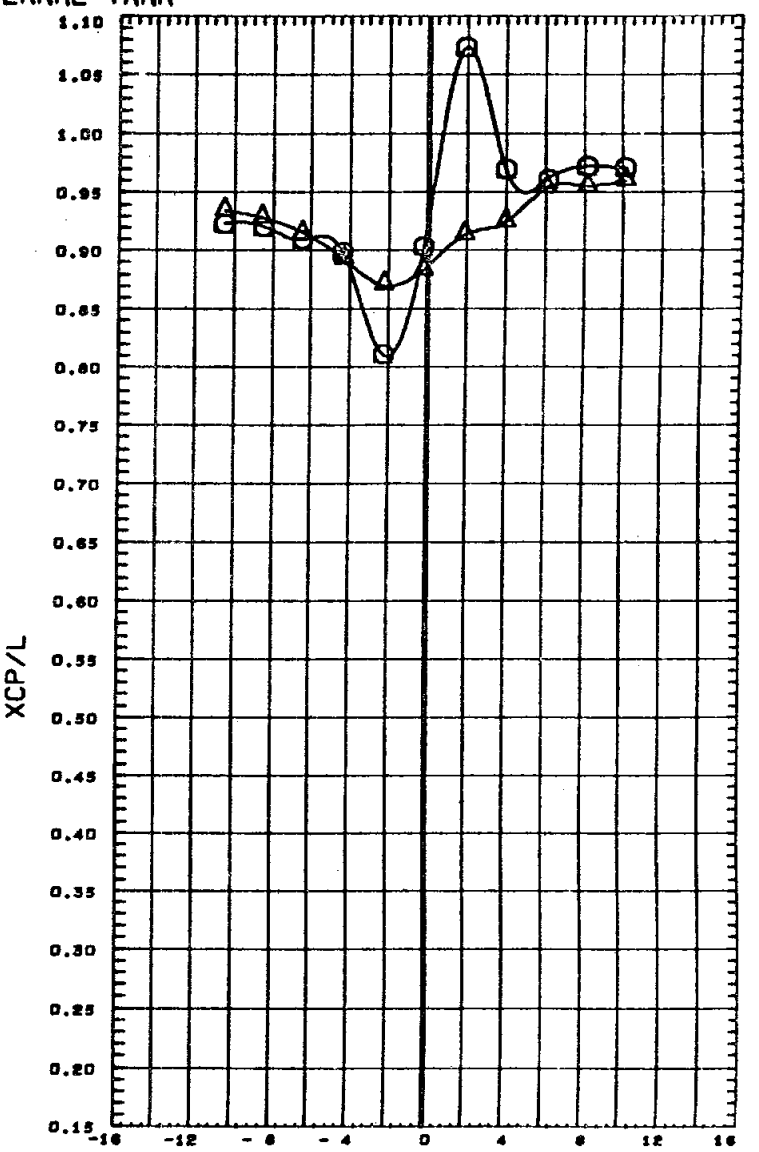
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	3.3120	IN.
BREF	3.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(677002) M556(IA1) NAR ATP BL LV (T3)(S1)

(677004) M556(IA1) NAR ATP BL LV (T3)(S1)

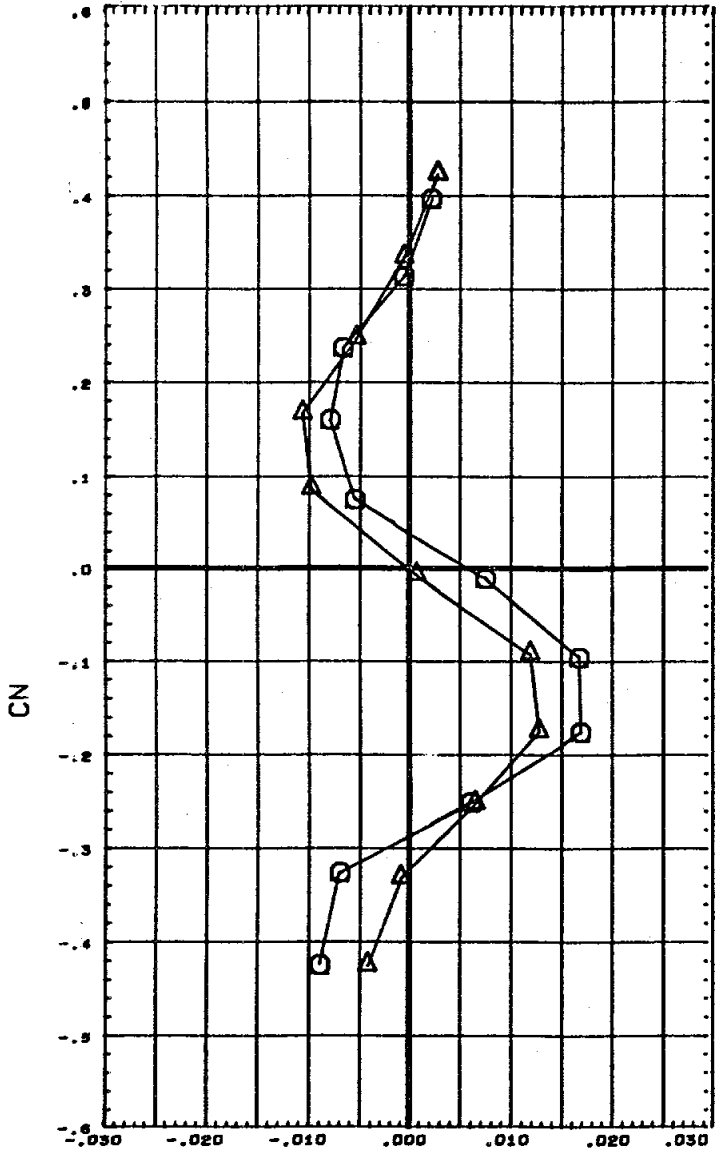
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

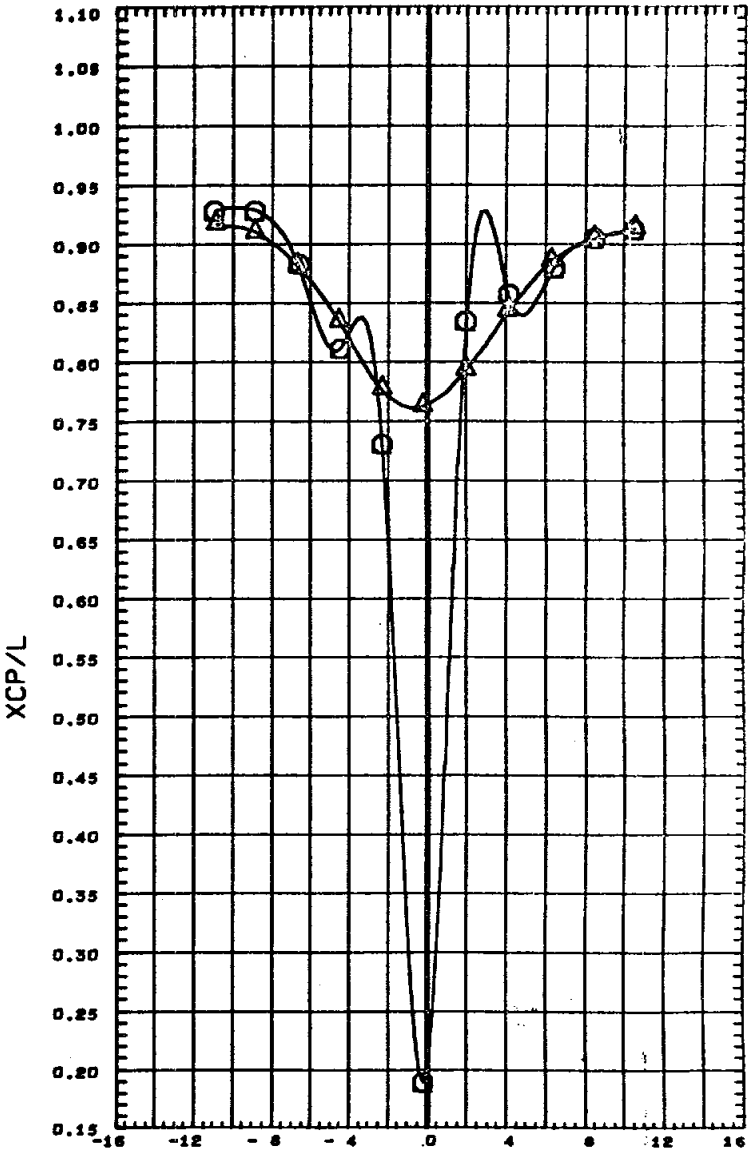
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





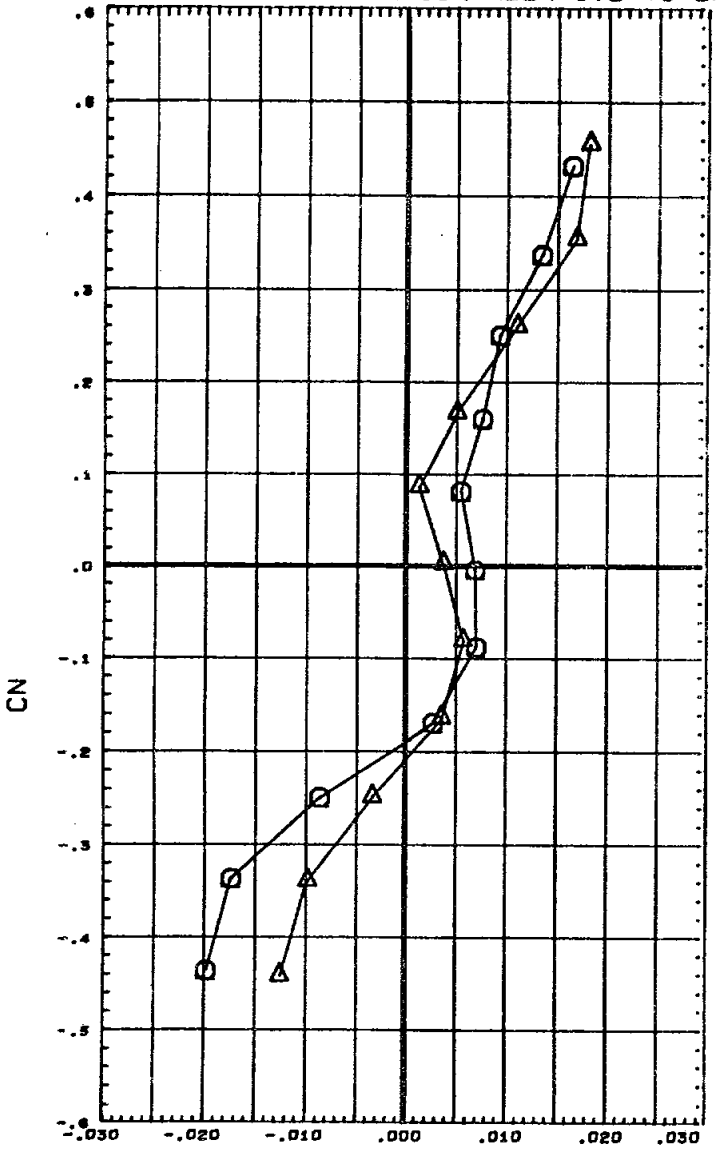
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(81)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(81)

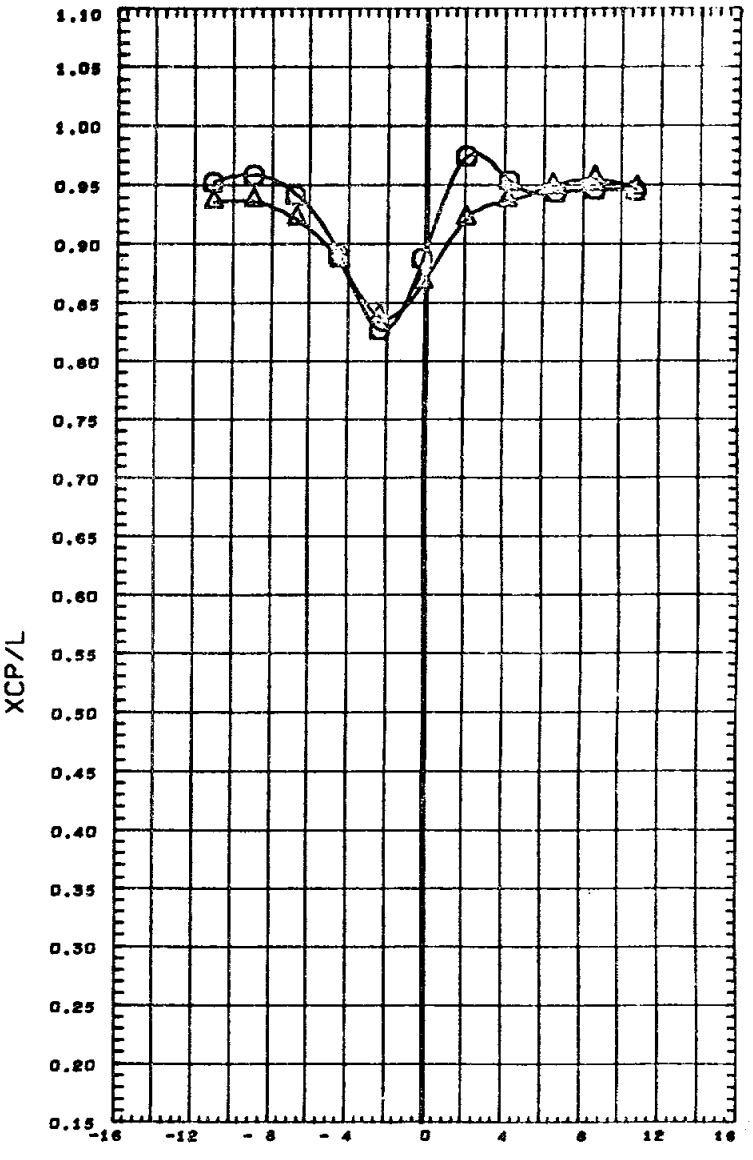
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





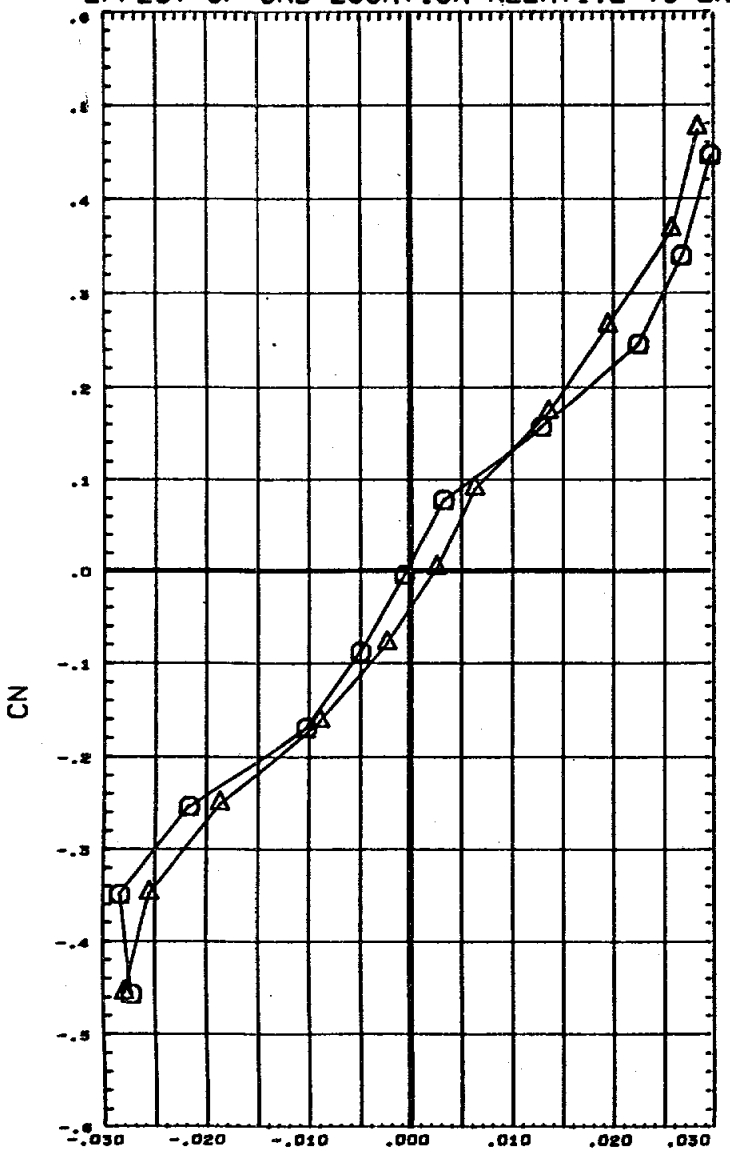
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)		M556(IA1) NAR ATP BL LV (T3)(81)
(677004)		M556(IA1) NAR ATP BL LV (T3)(81)

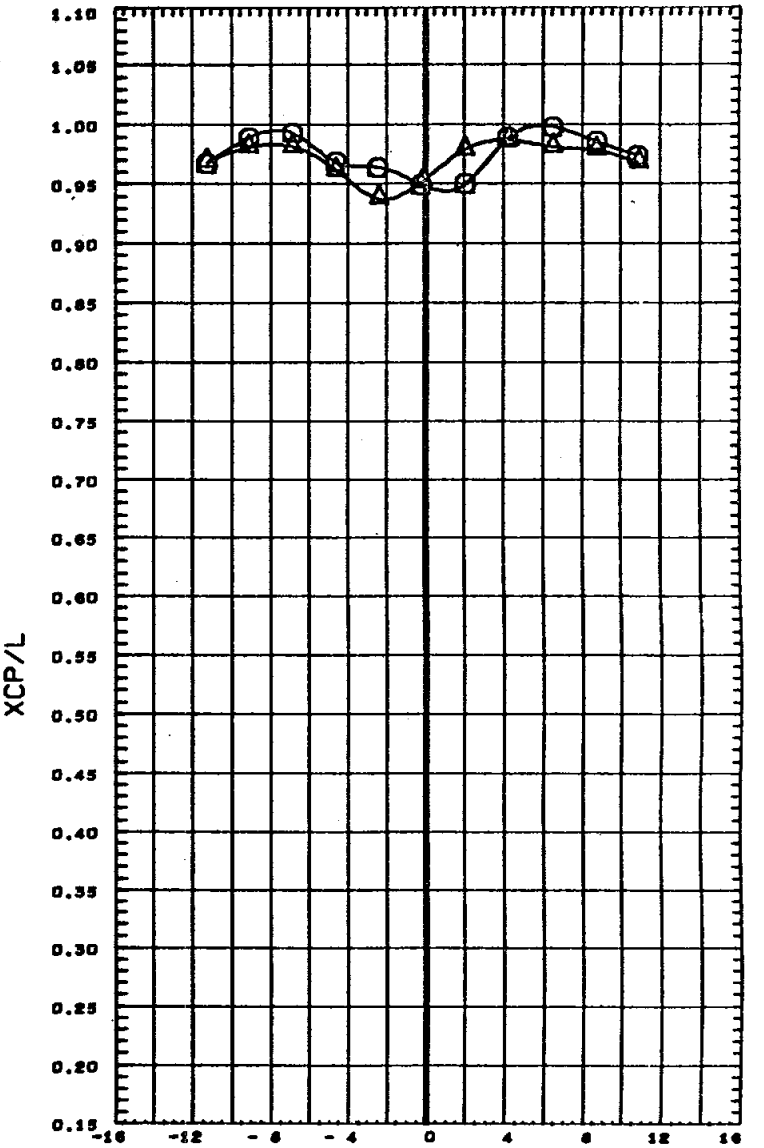
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





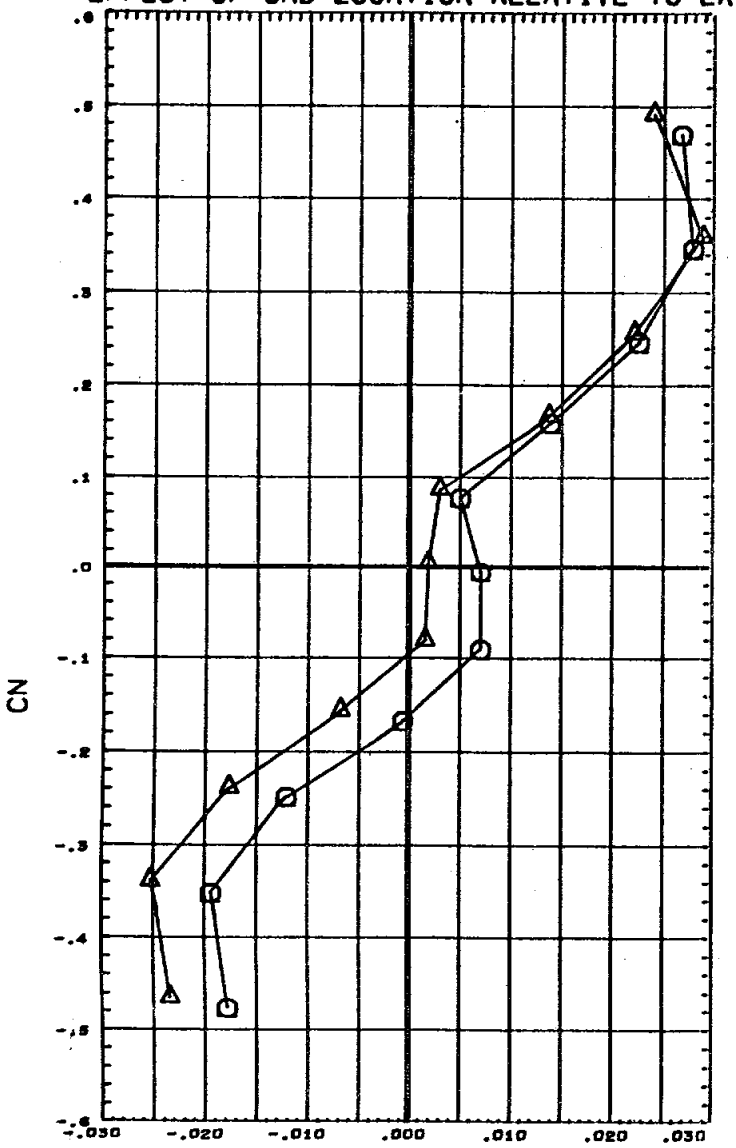
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

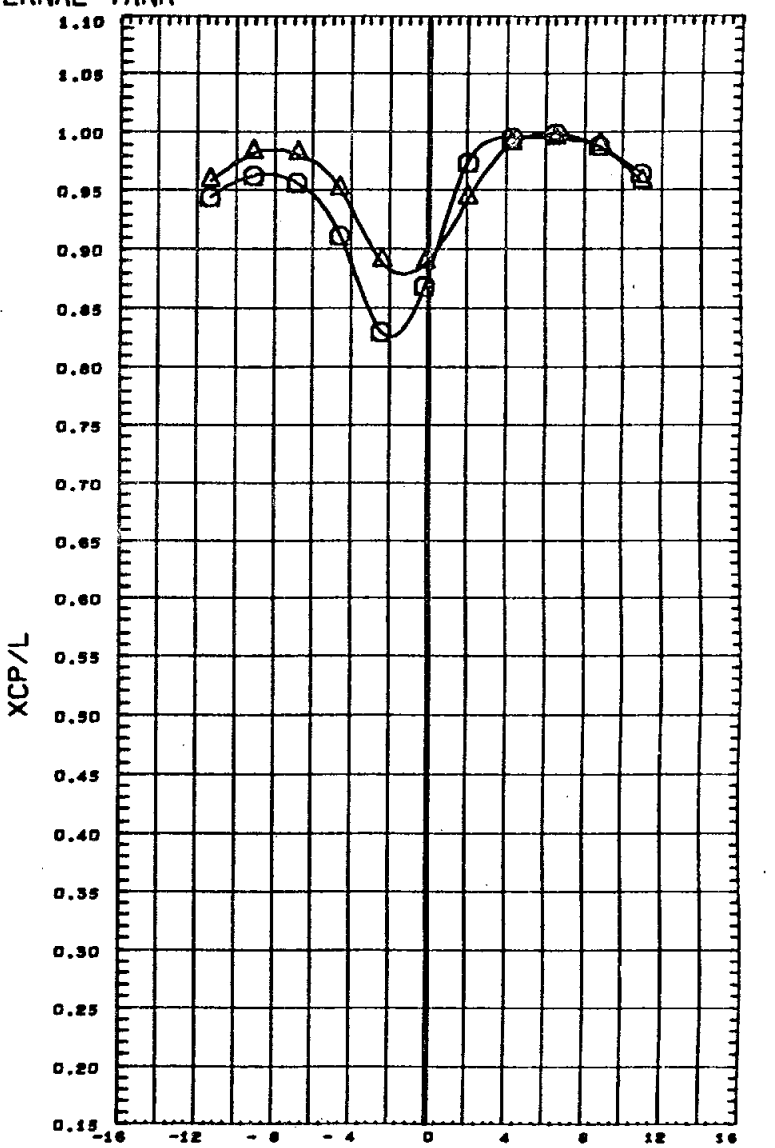
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





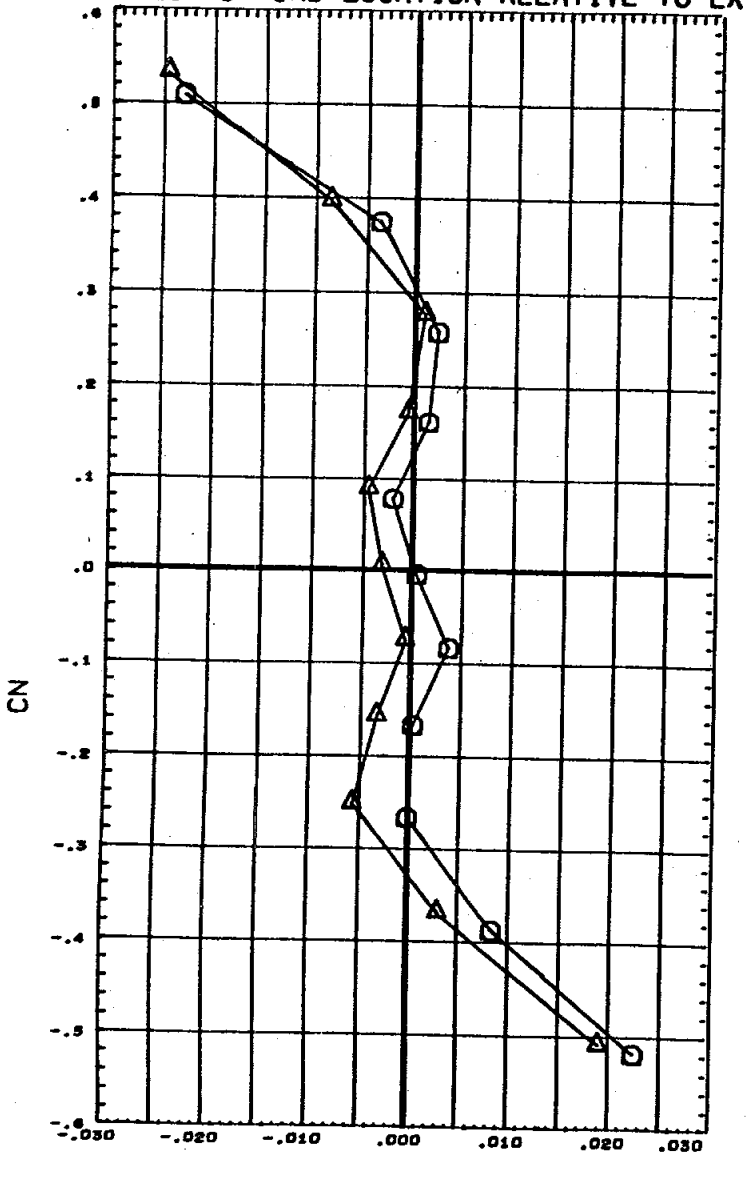
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)		M556(IA1) NAR ATP BL LV (T3)(S1)
(677004)		M556(IA1) NAR ATP BL LV (T3)(S1)

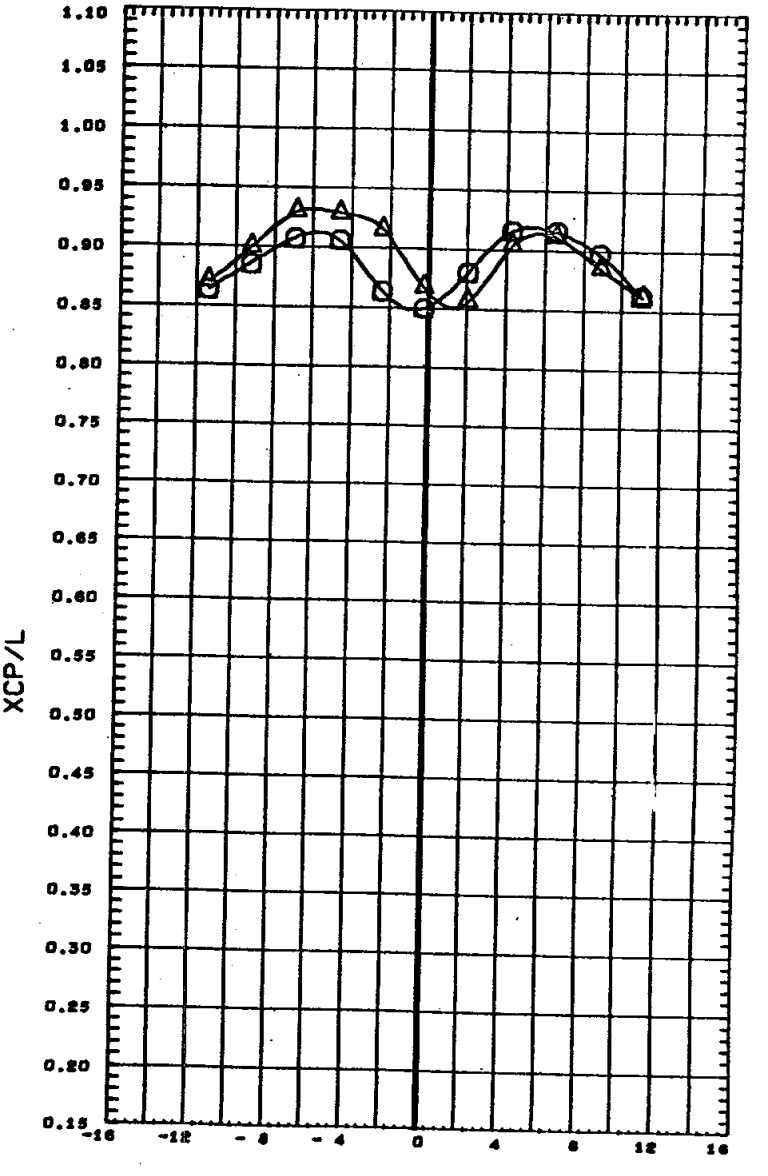
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(G77002)		M556(IA1) NAR ATP BL LV (T3)(S1)
(G77004)		M556(IA1) NAR ATP BL LV (T3)(S1)

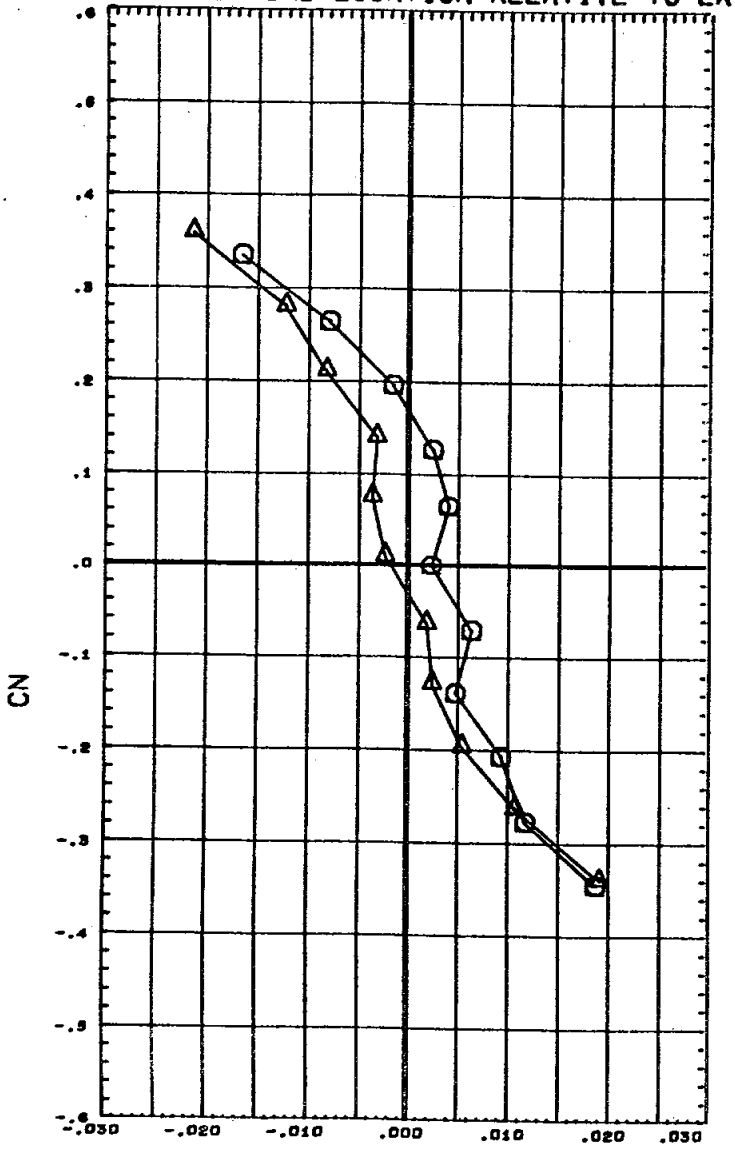
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

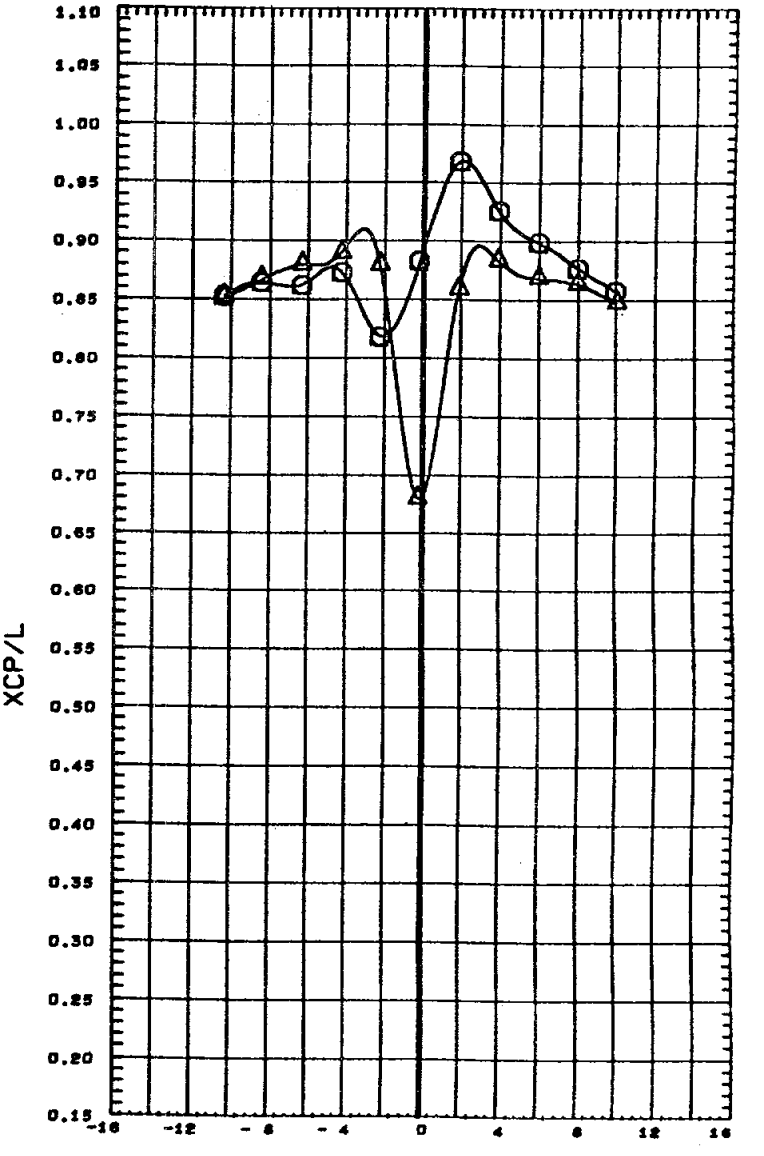
REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





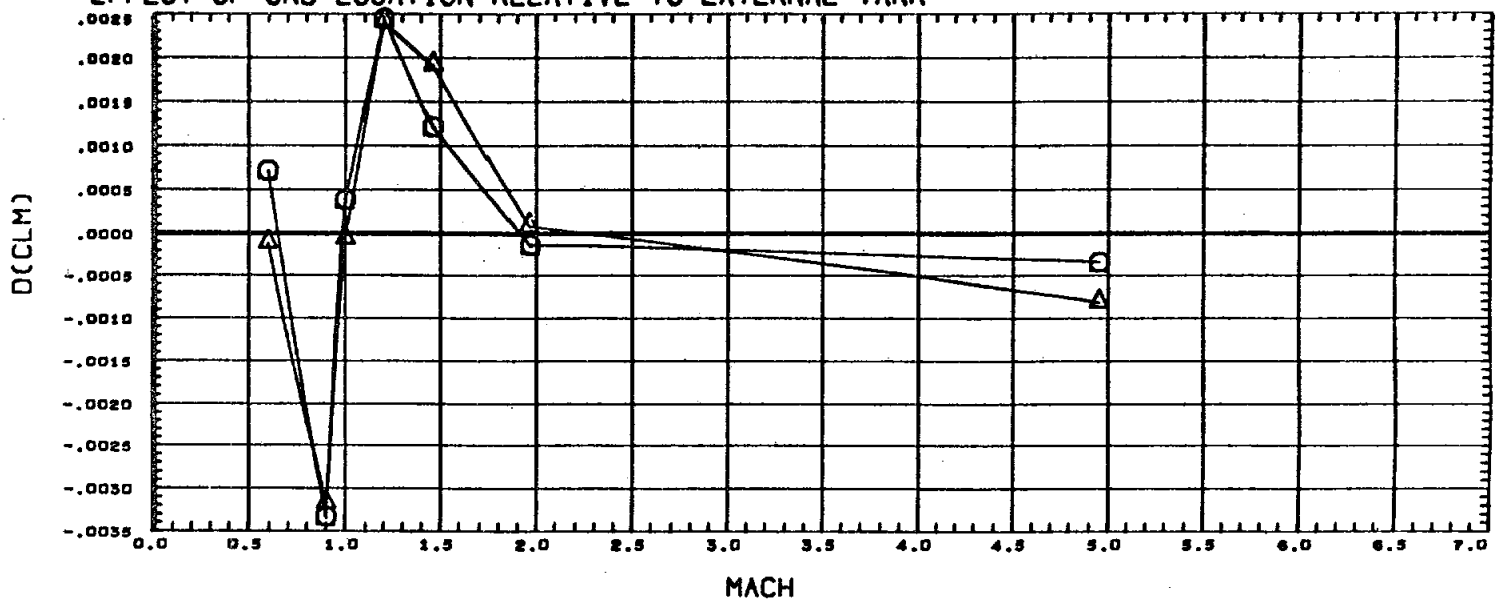
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(GT7002)		M556(IA1) NAR ATP BL LV (T3)(S1)
(GT7004)		M556(IA1) NAR ATP BL LV (T3)(S1)

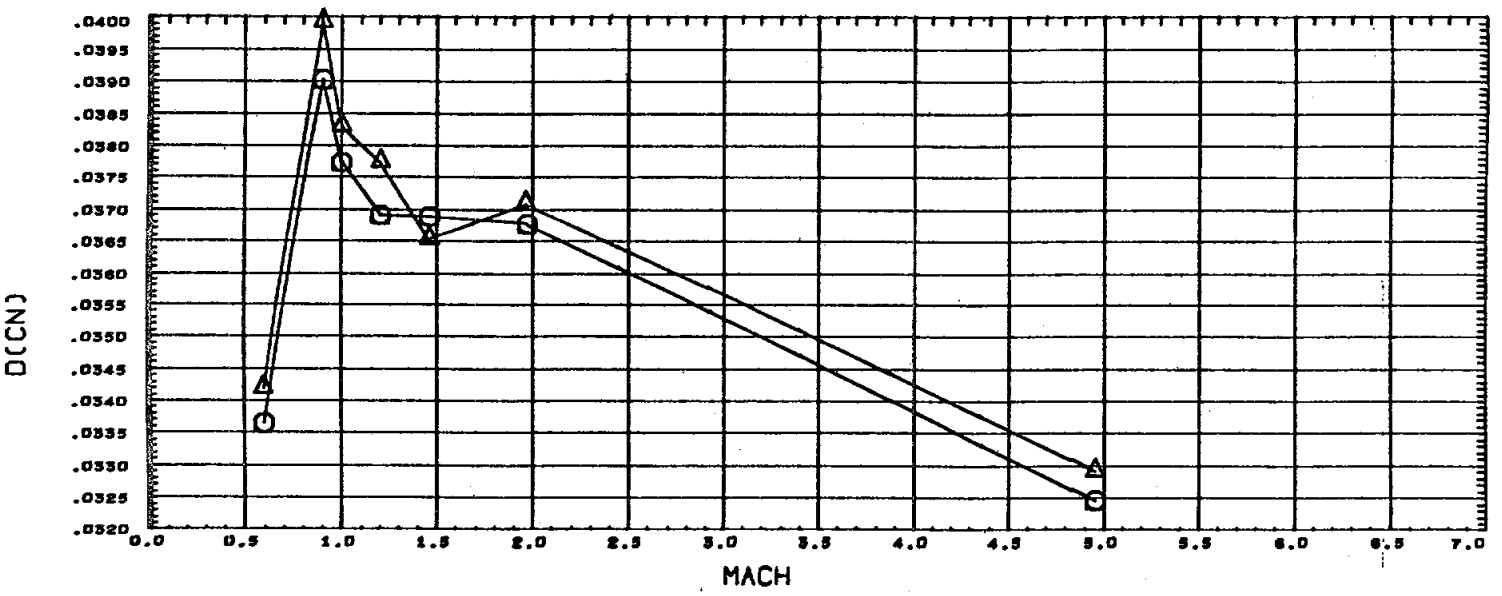
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK

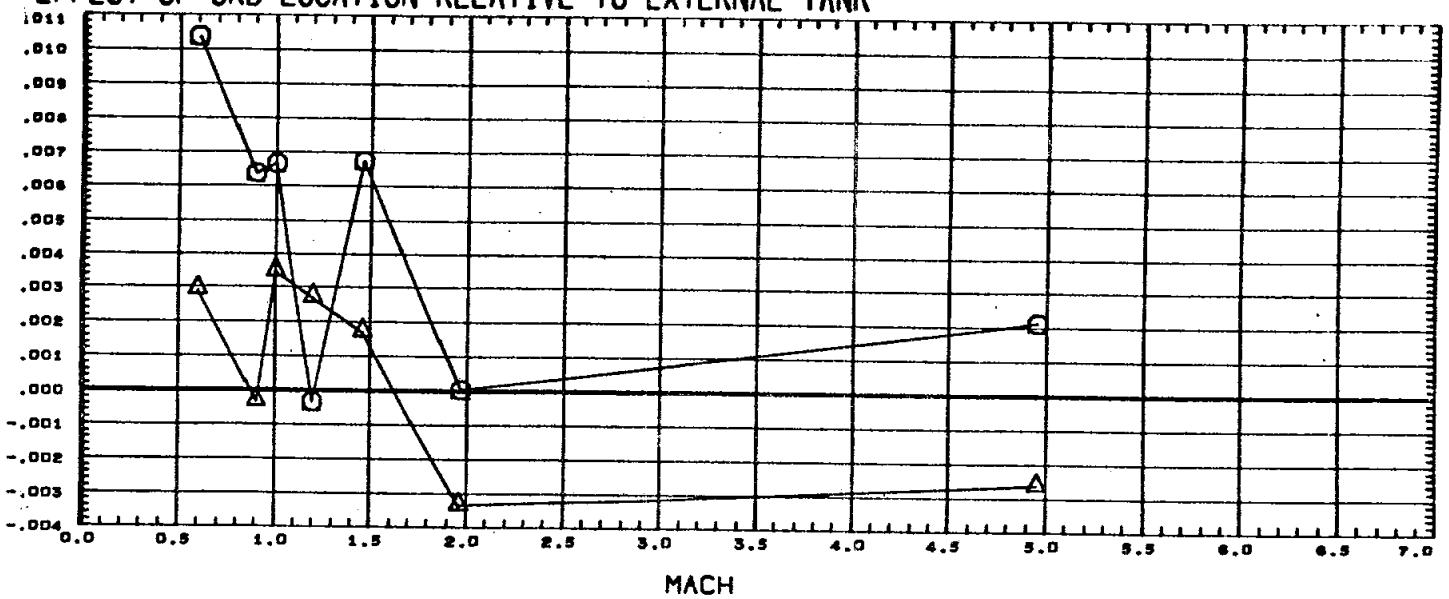


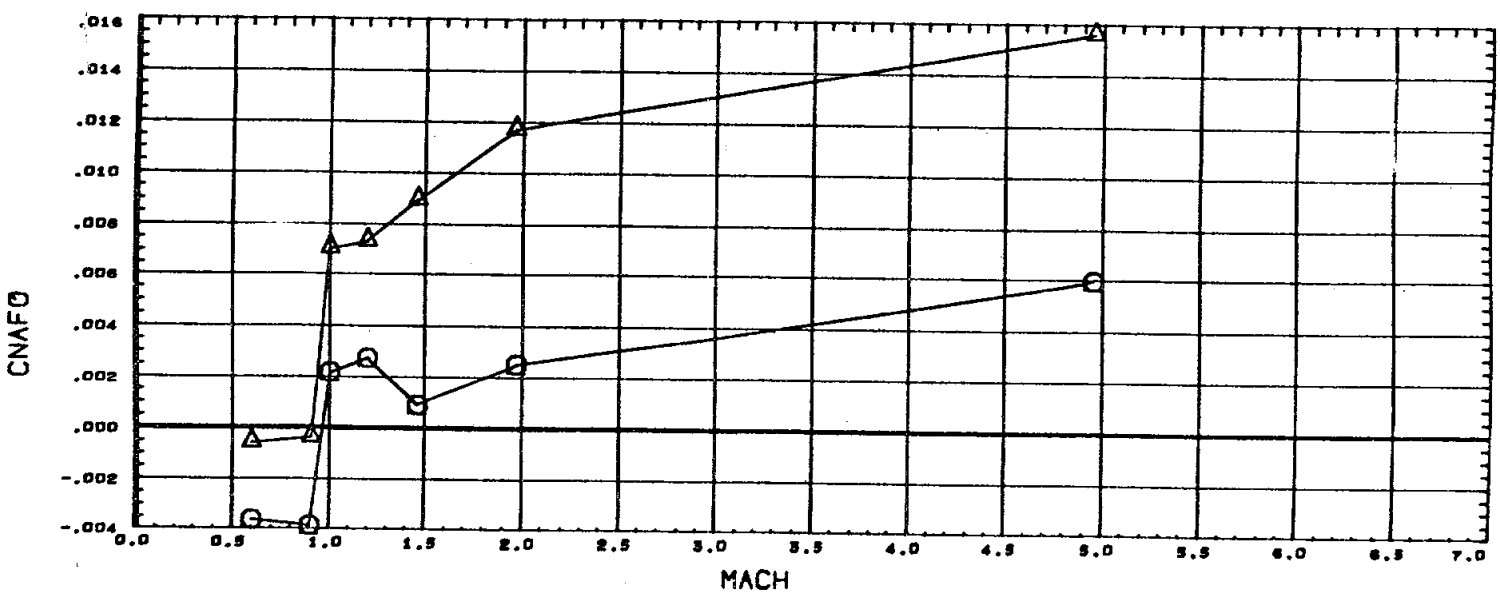


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(G77002)		M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(G77004)		M556(IA1) NAR ATP BL LV (T3)(S1)	90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK



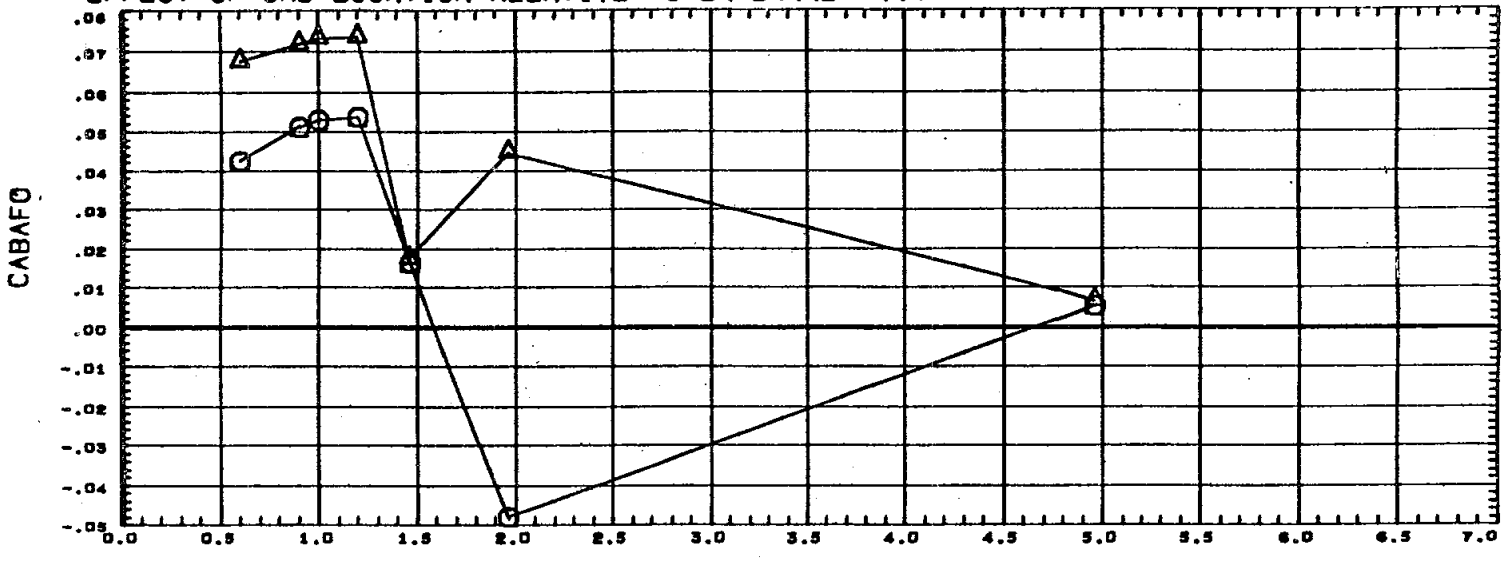


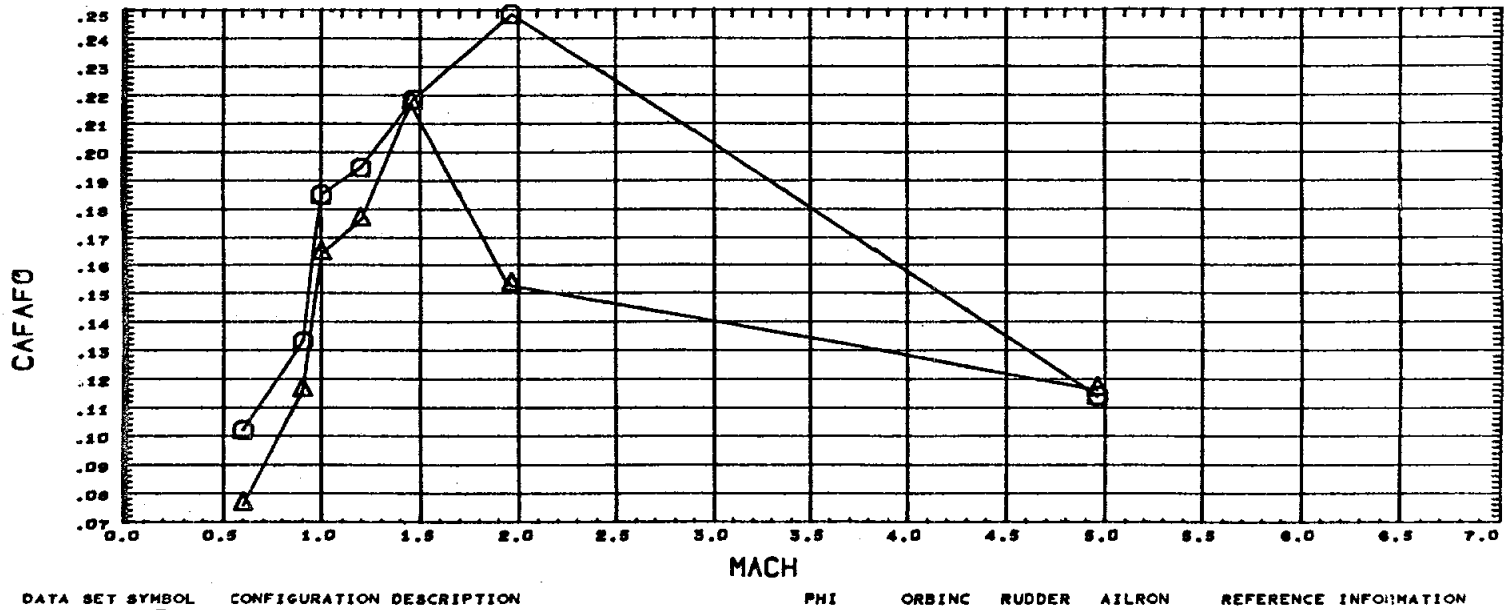
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(GT7002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(GT7004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4150	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK

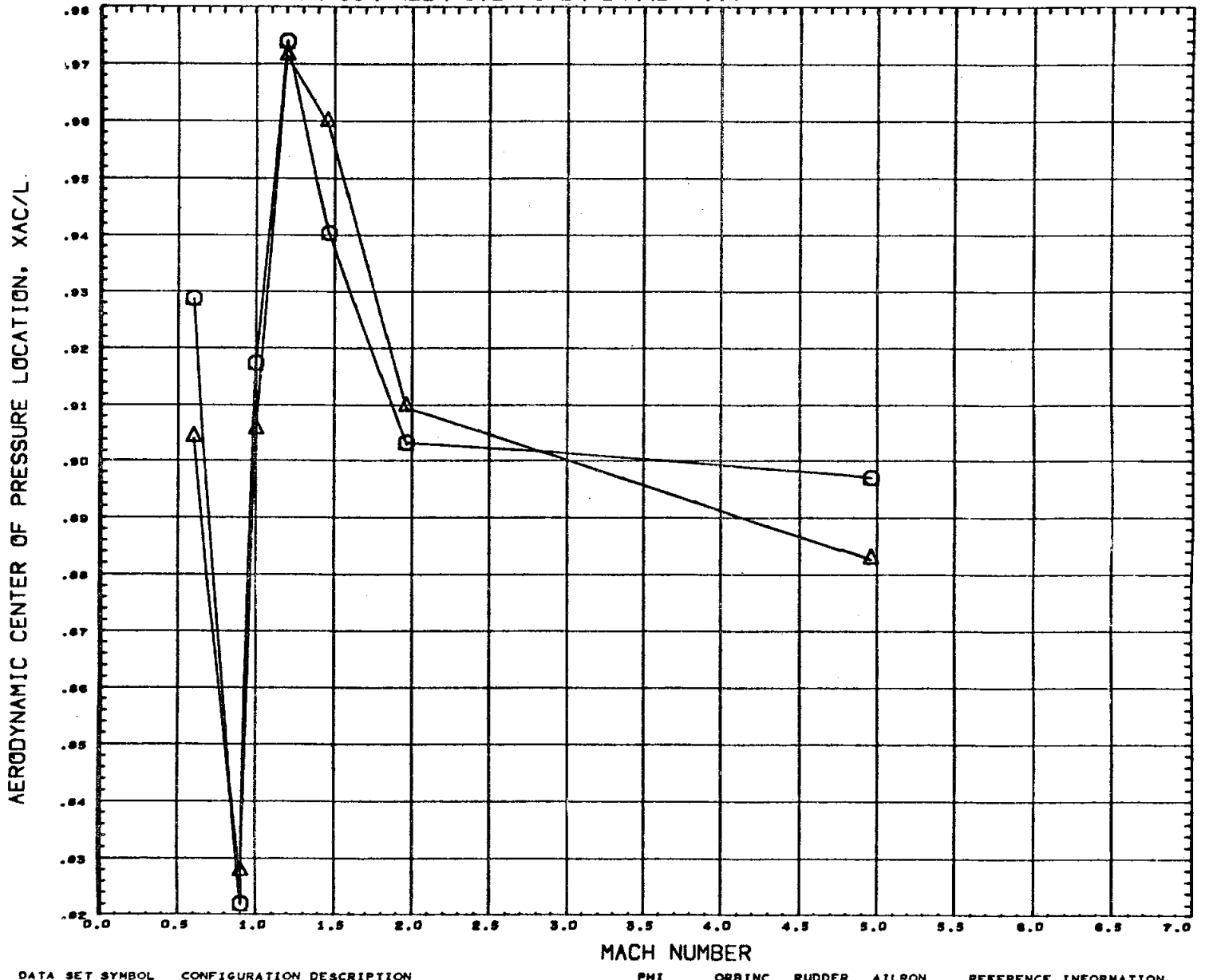




DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(677002)	○	M556(IA1) NAR ATP BL LV (T3)(S1)	80.000			
(677004)	△	M556(IA1) NAR ATP BL LV (T3)(S1)	90.000			

REFERENCE INFORMATION		
SREF	7.4590	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK

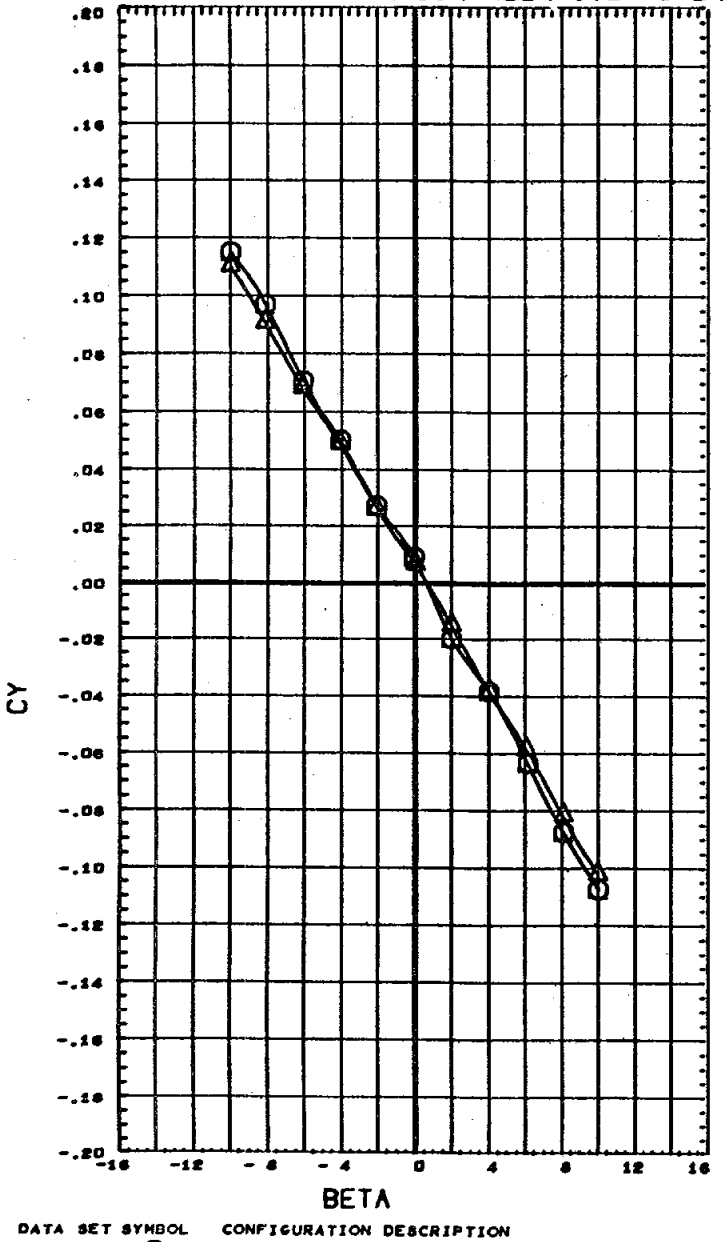


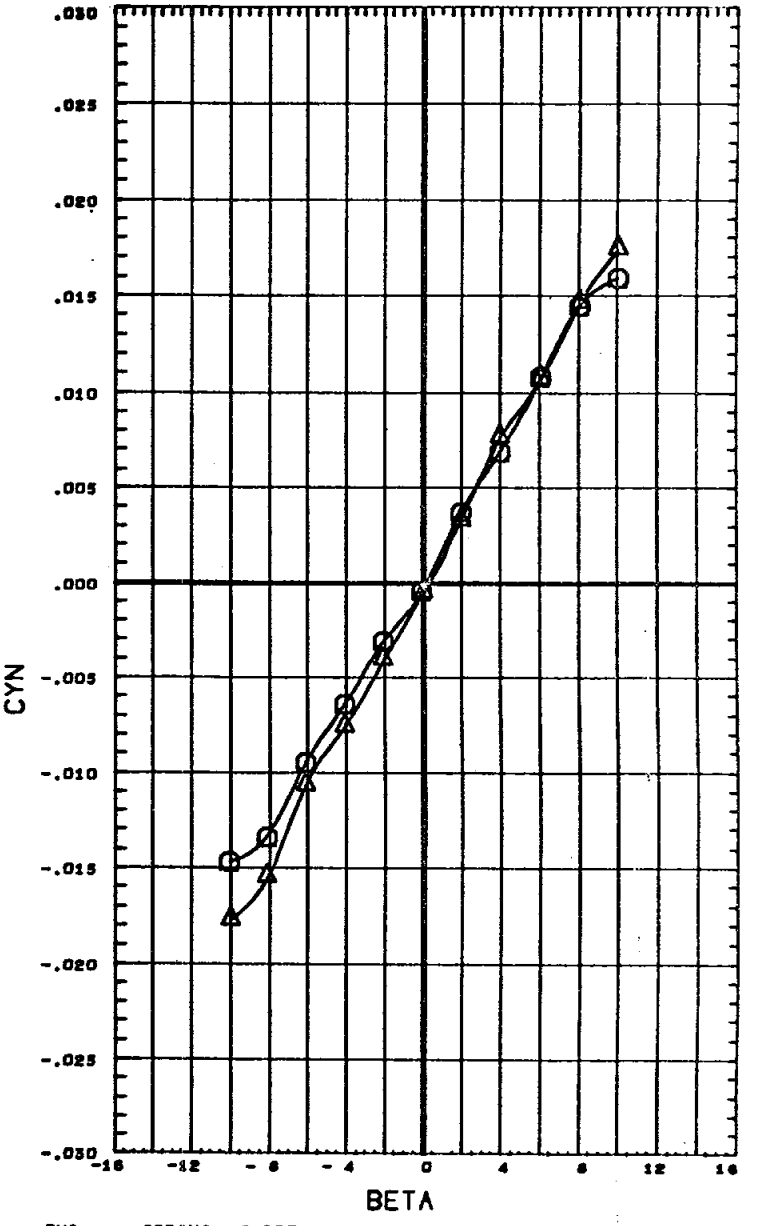
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(677002)	○	M556(IA1) NAR ATP BL LV (T3) (S1)
(677004)	△	M556(IA1) NAR ATP BL LV (T3) (S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





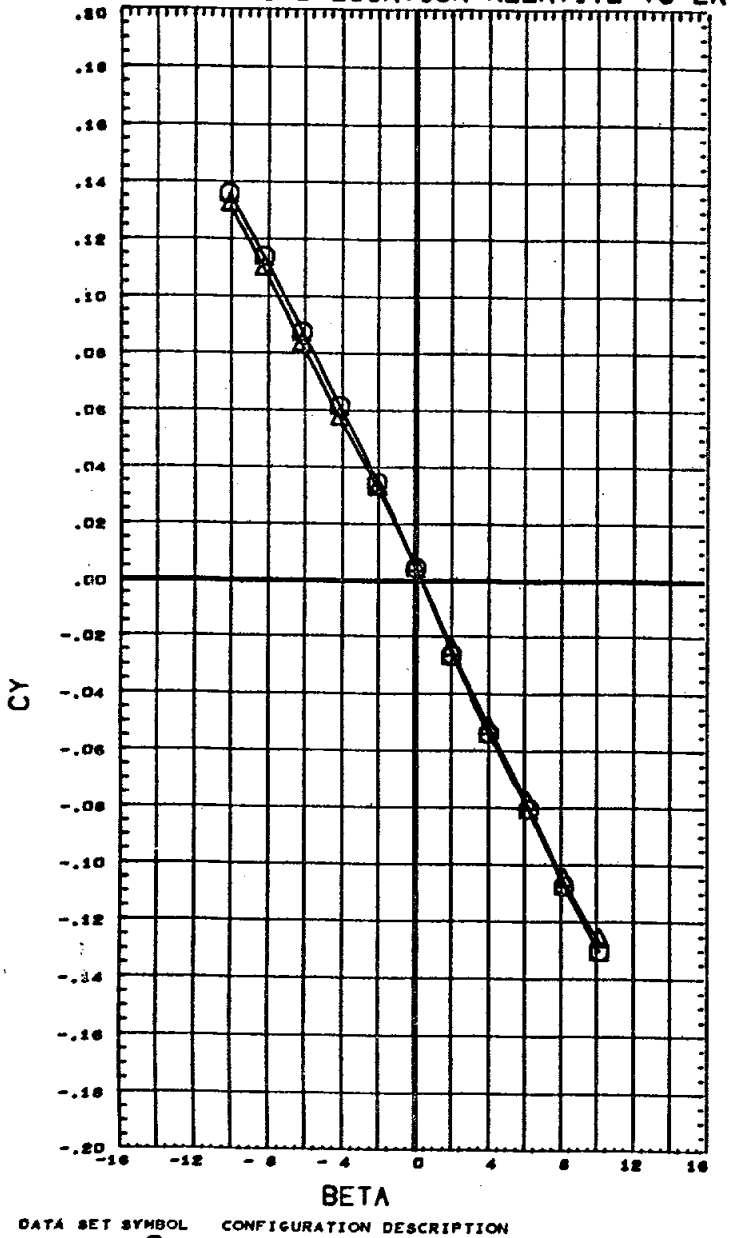
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

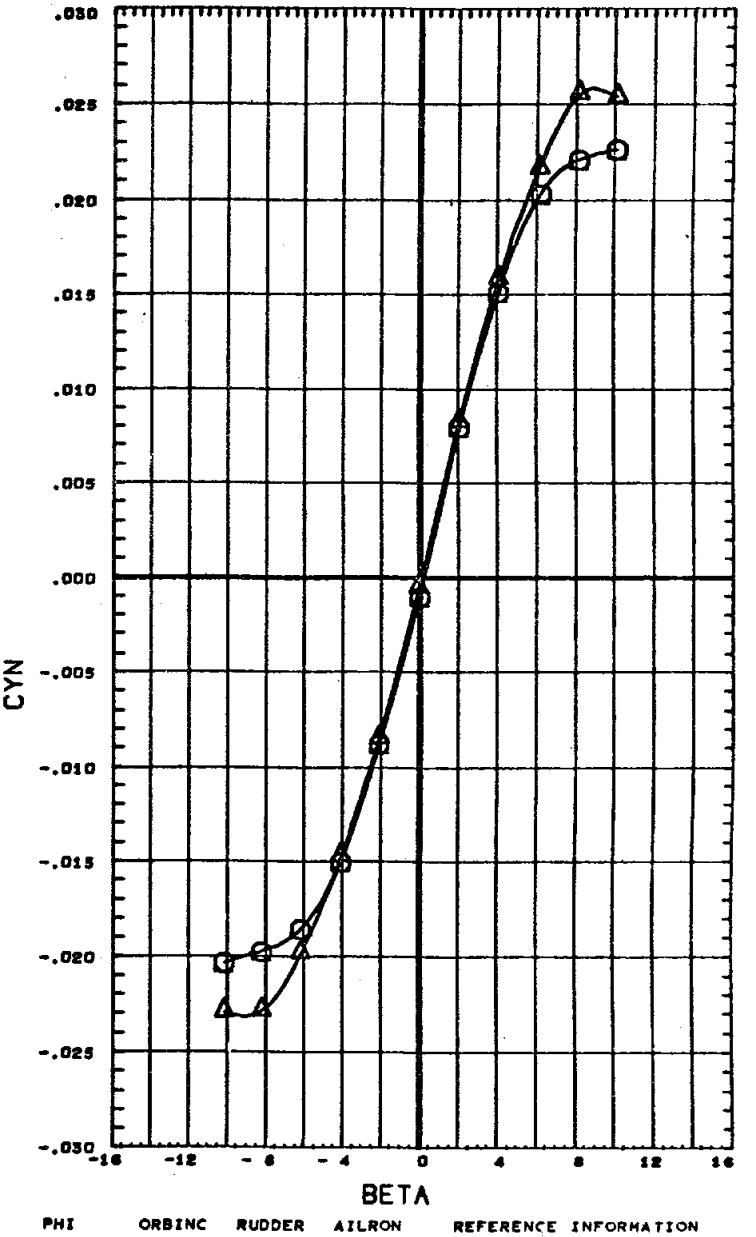
PHI	ORBINC	RUDDER	AILRON
60.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77003) M556(IA1) NAR ATP BL LV (T3)(S1)

(C77005) M556(IA1) NAR ATP BL LV (T3)(S1)

PHI ORBINC RUDDER AILRON

60.000

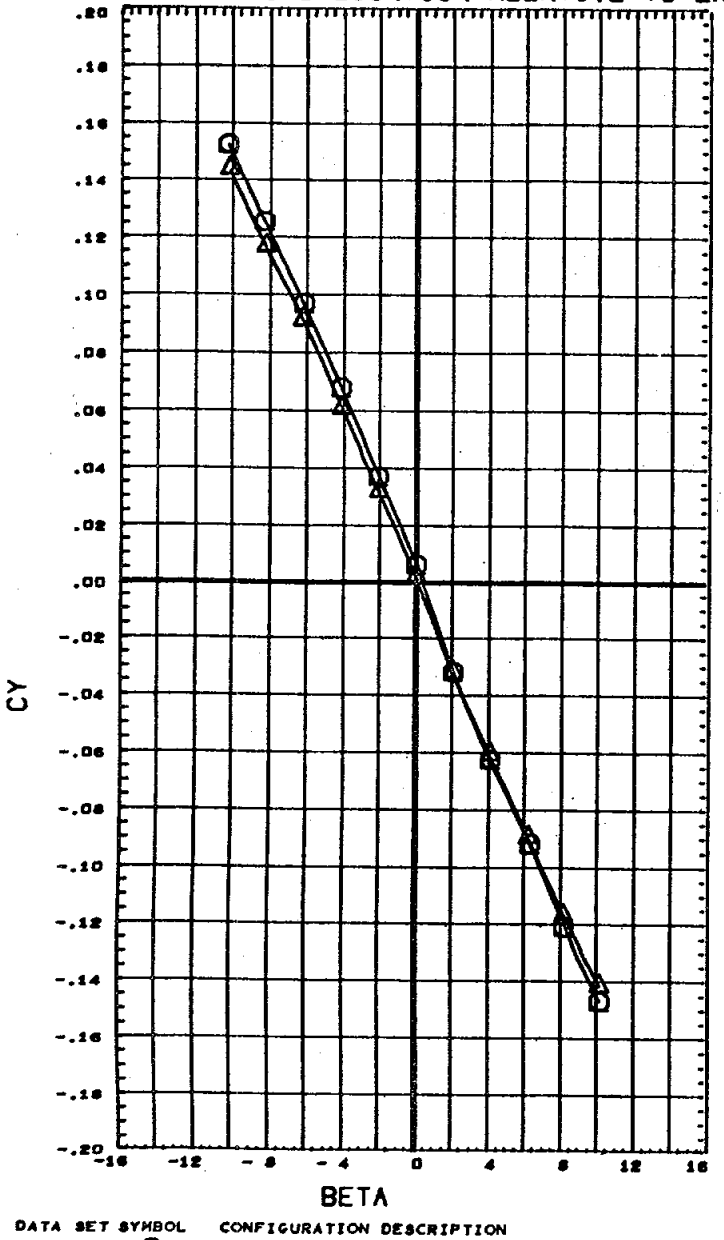
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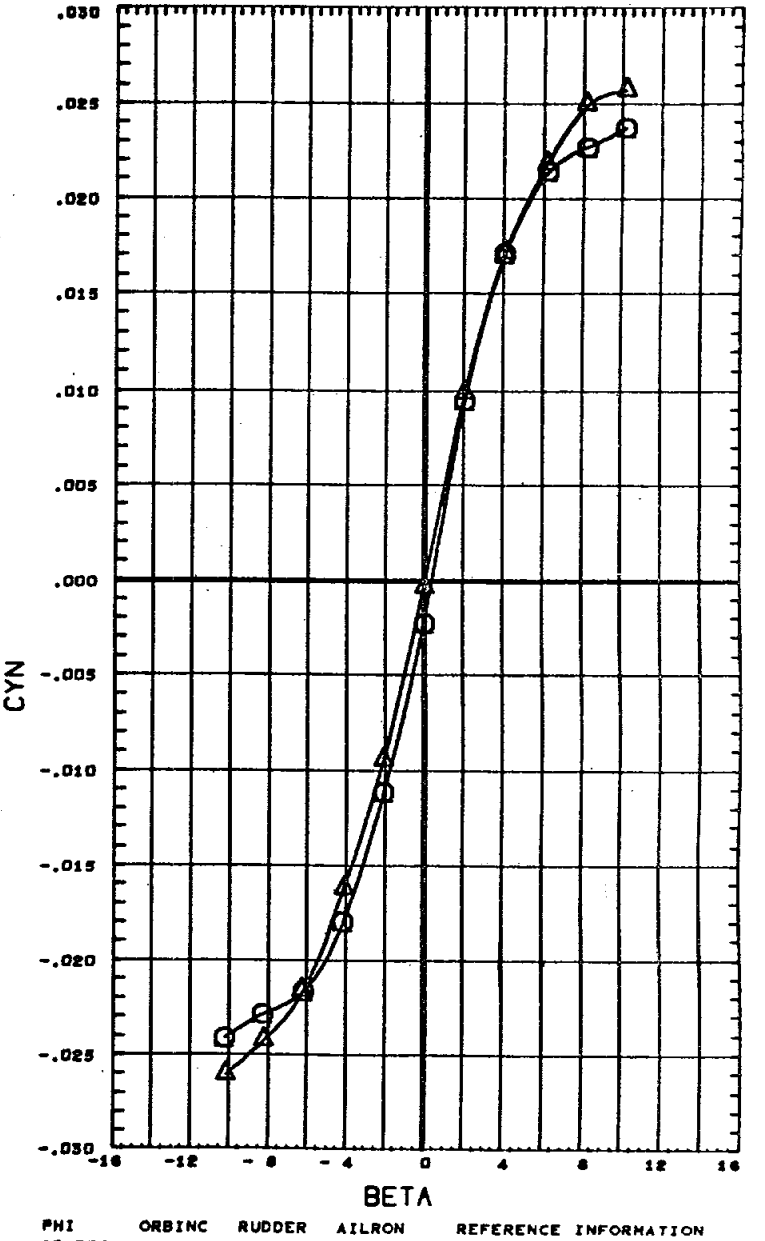
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)		M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)		M556(IA1) NAR ATP BL LV (T3)(S1)

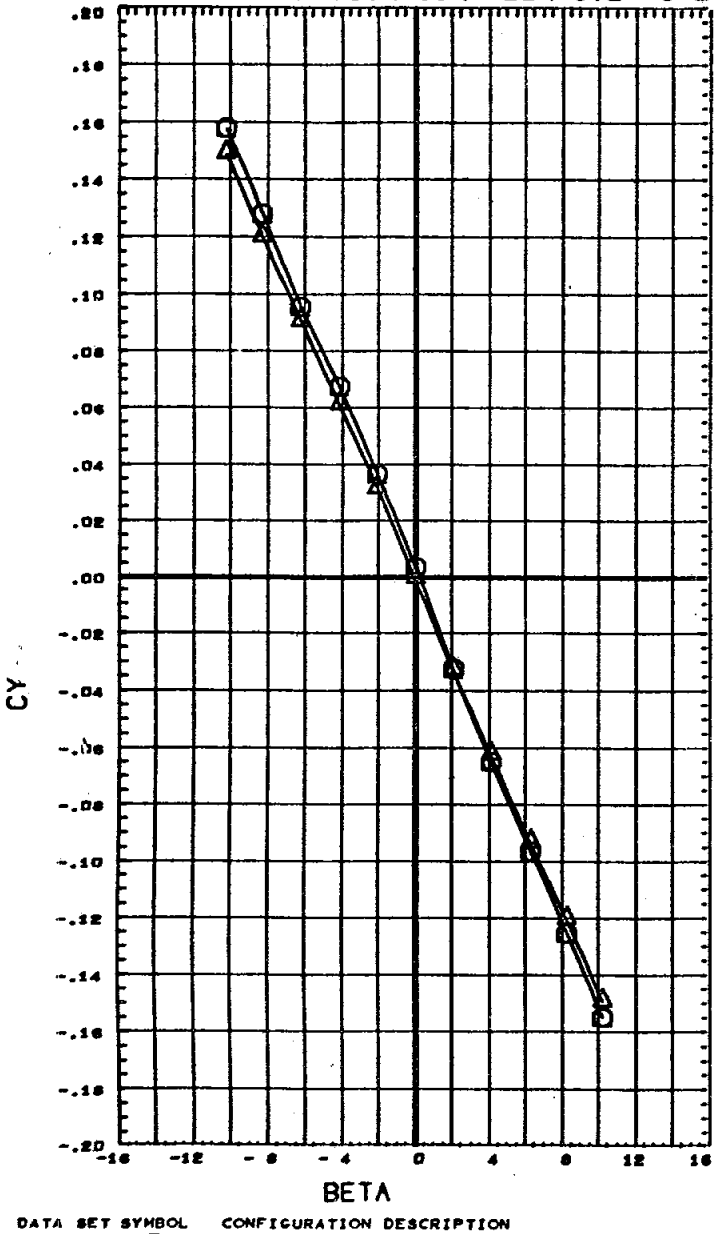
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

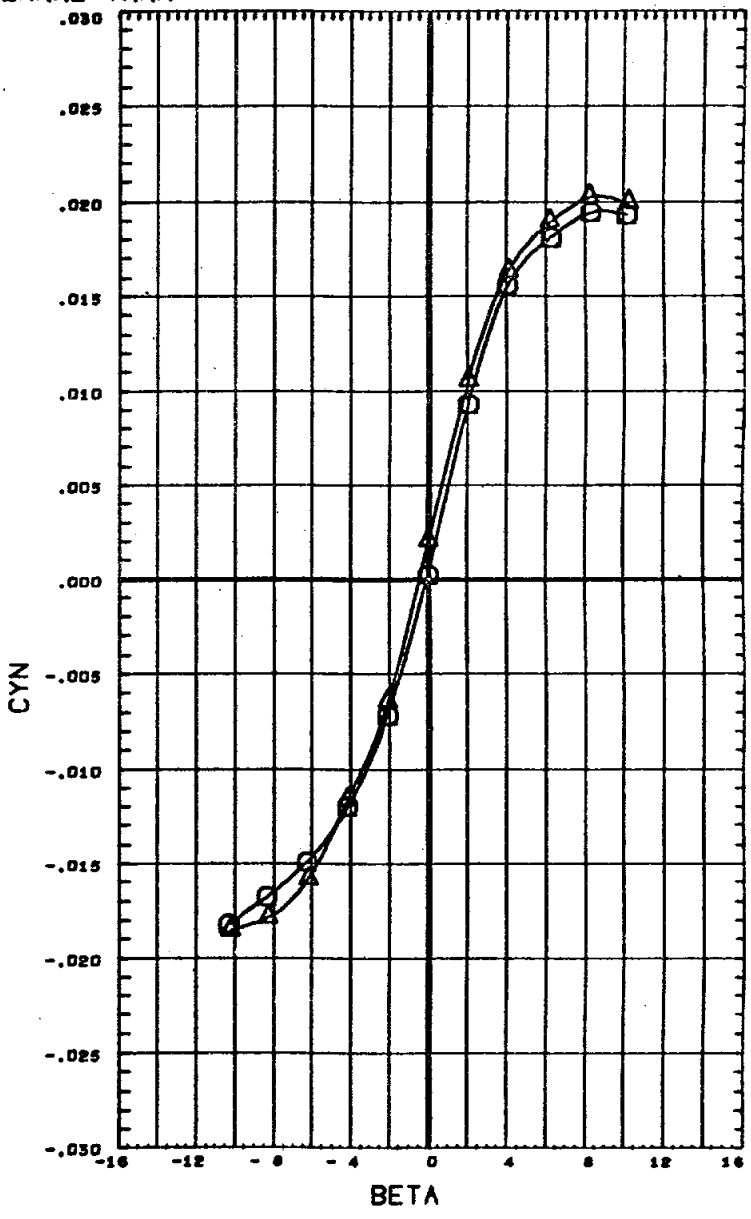
REFERENCE INFORMATION

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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





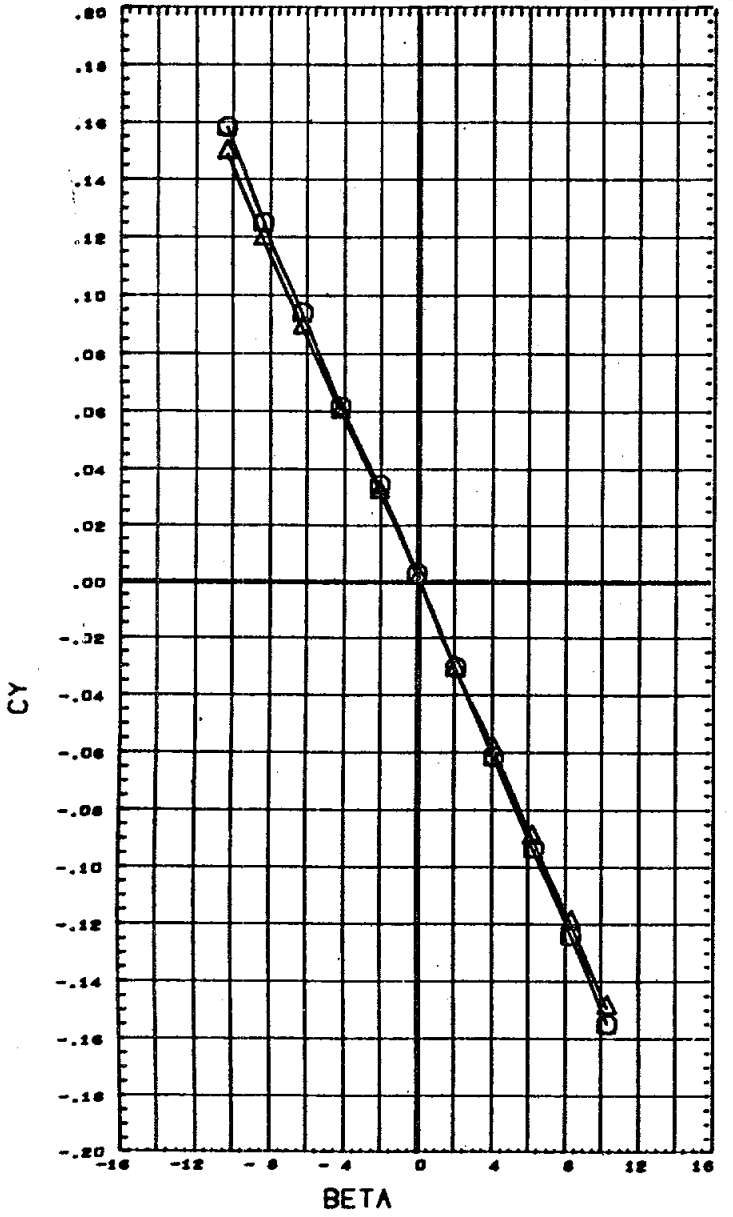
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

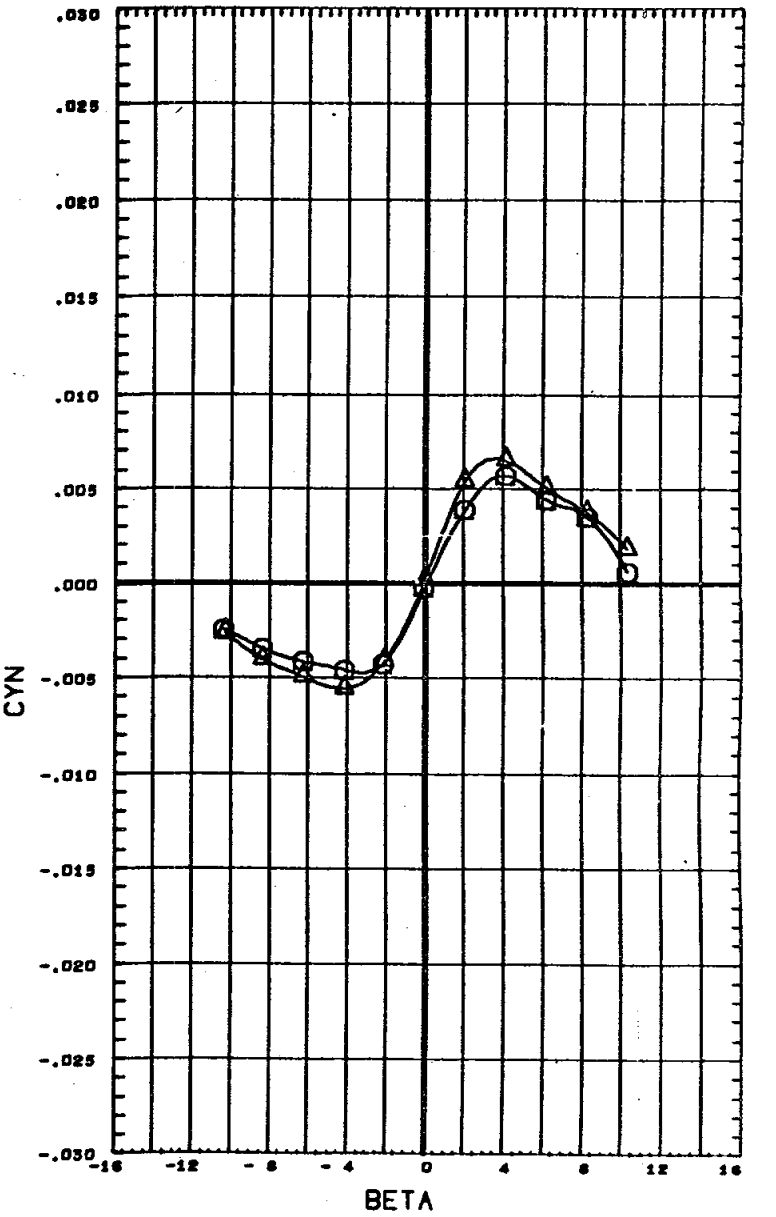
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





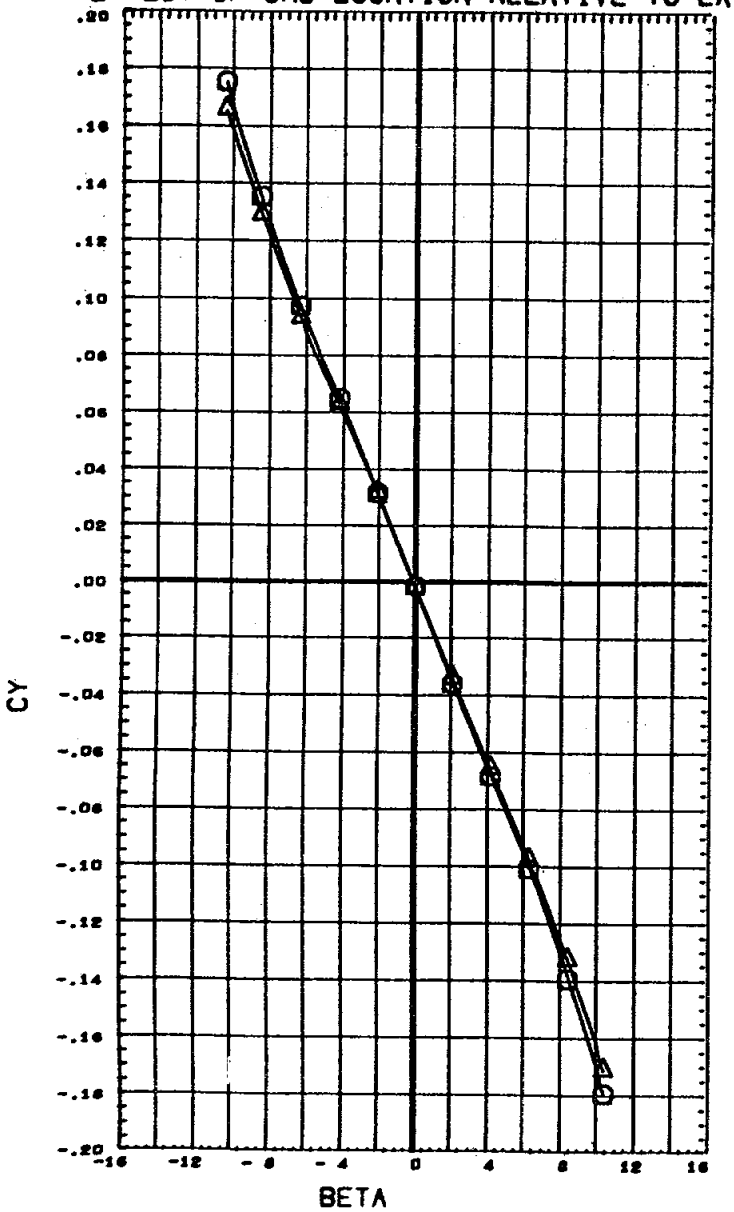
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(C77005)		M556(IA1) NAR ATP BL LV (T3)(S1)

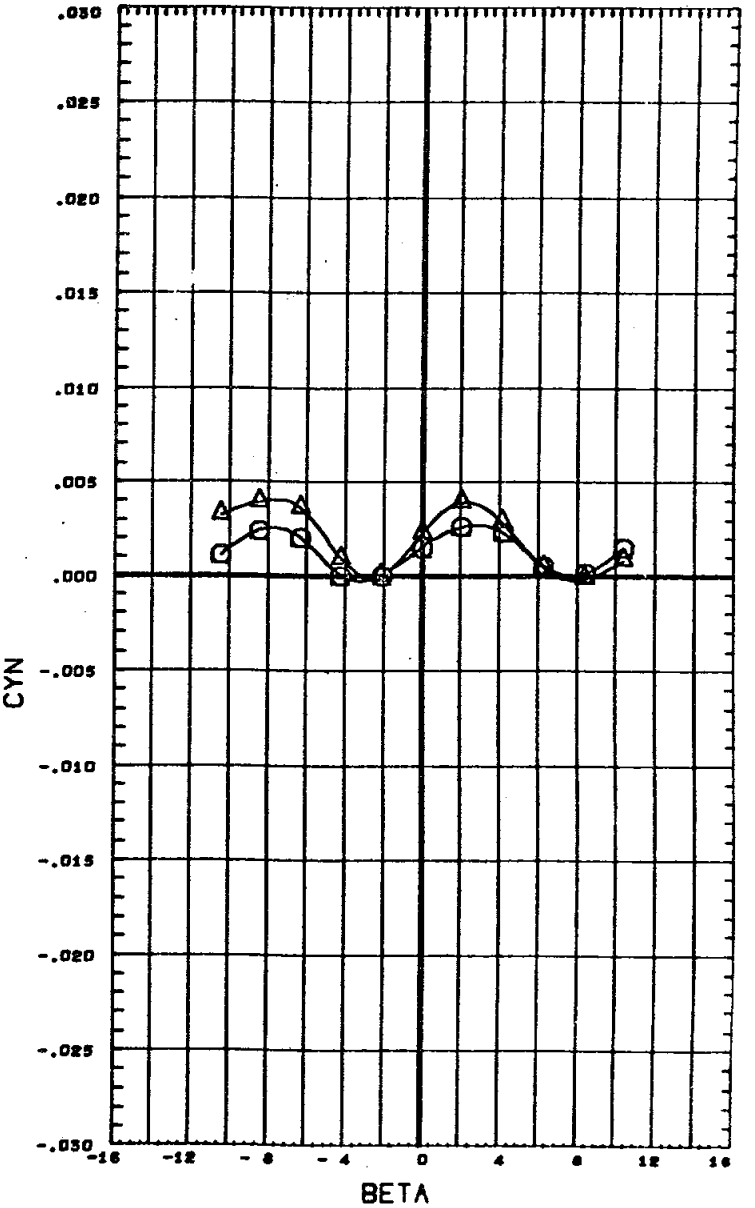
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





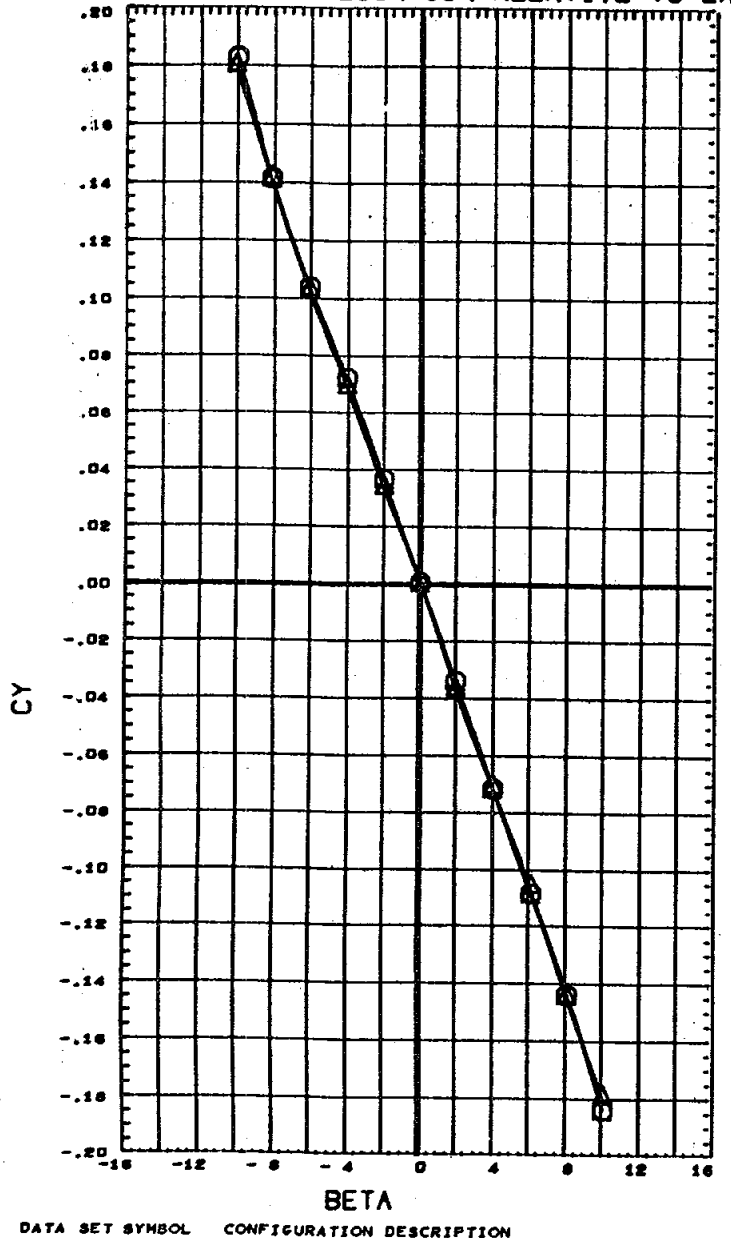
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)		M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)		M556(IA1) NAR ATP BL LV (T3)(S1)

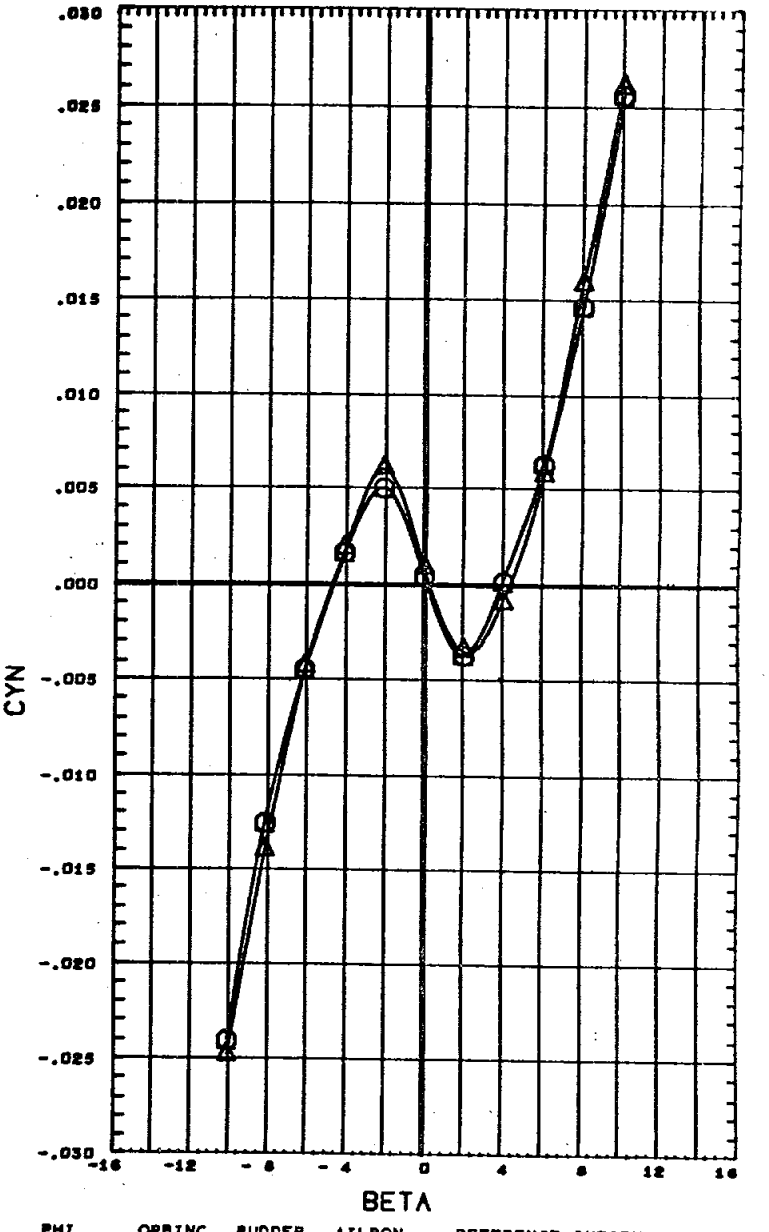
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77003) M556(IA1) NAR ATP BL LV (T3)(S1)

(C77005) M556(IA1) NAR ATP BL LV (T3)(S1)

PHI ORBINC RUDDER AILRON

80.000

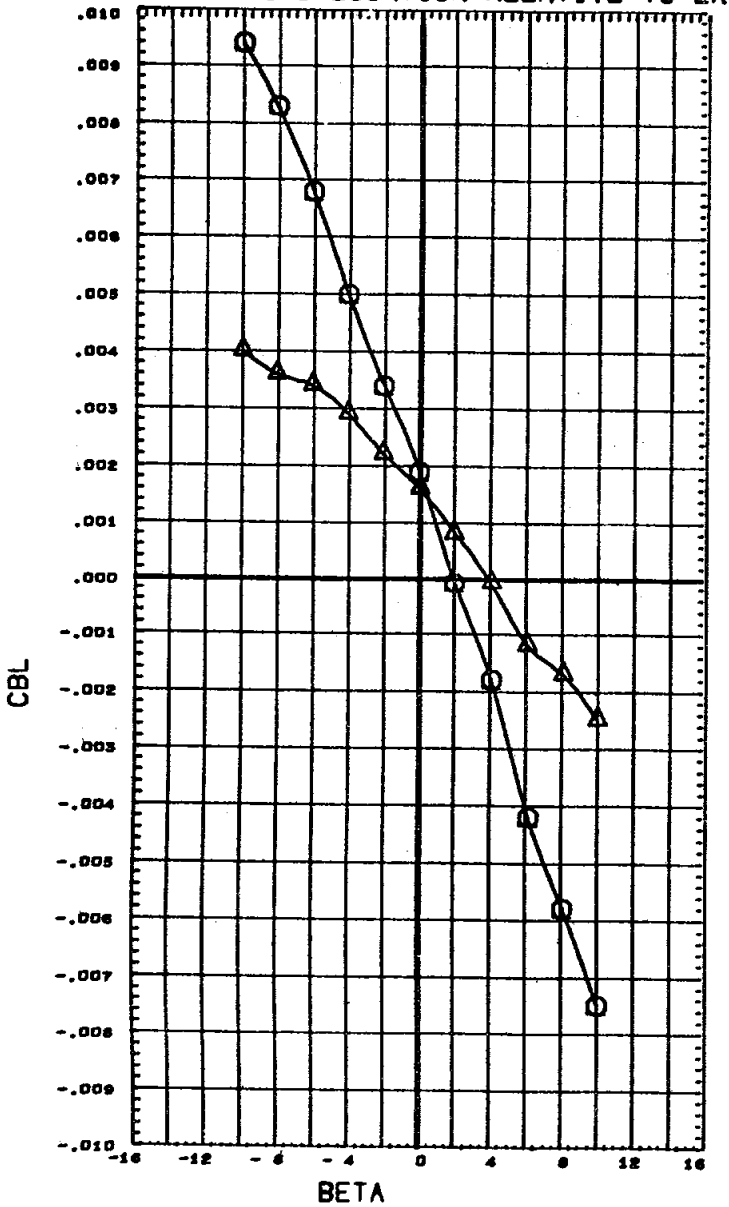
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REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

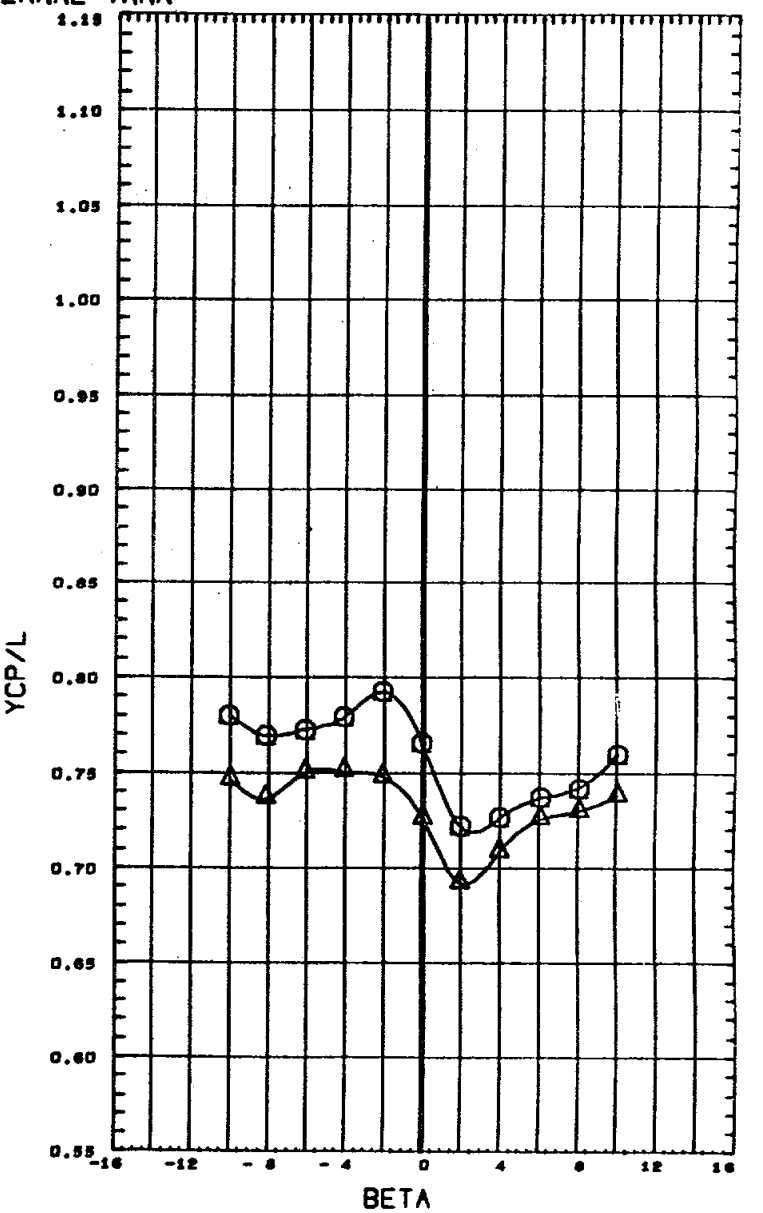
EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77003) M556(IA1) NAR ATP BL LV (T3)(S1)

(C77005) M556(IA1) NAR ATP BL LV (T3)(S1)



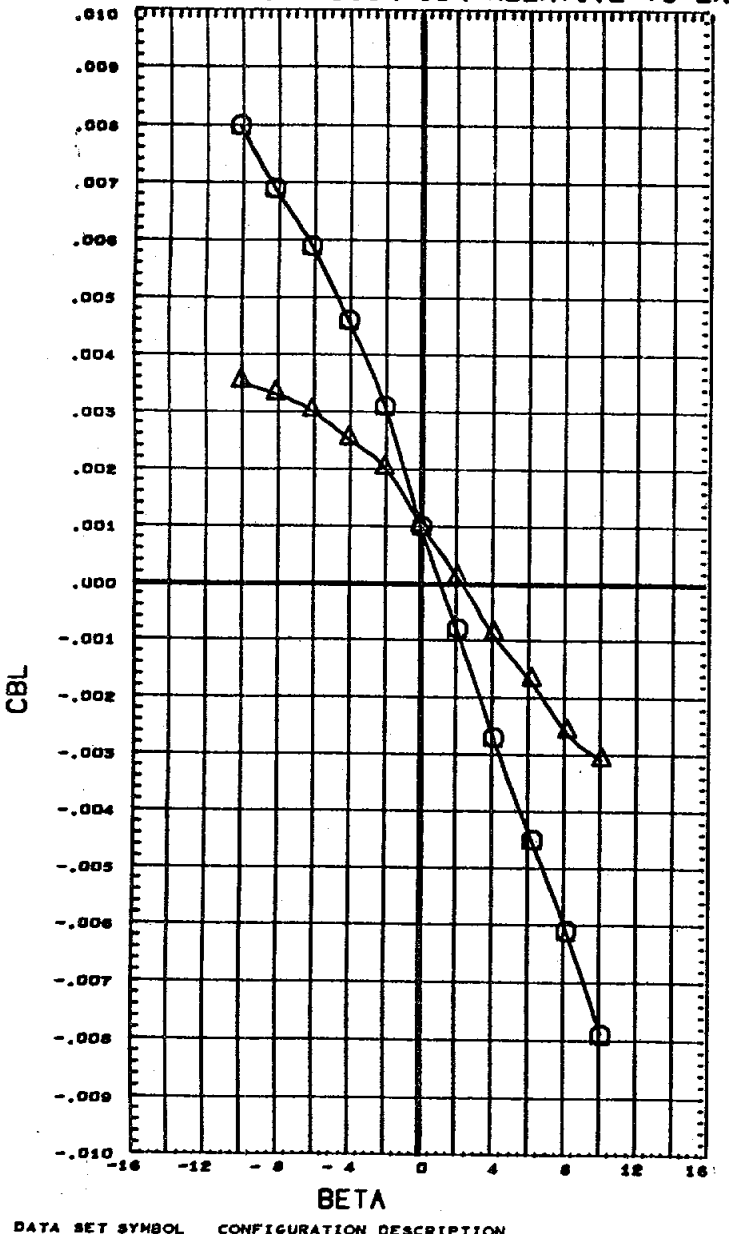
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

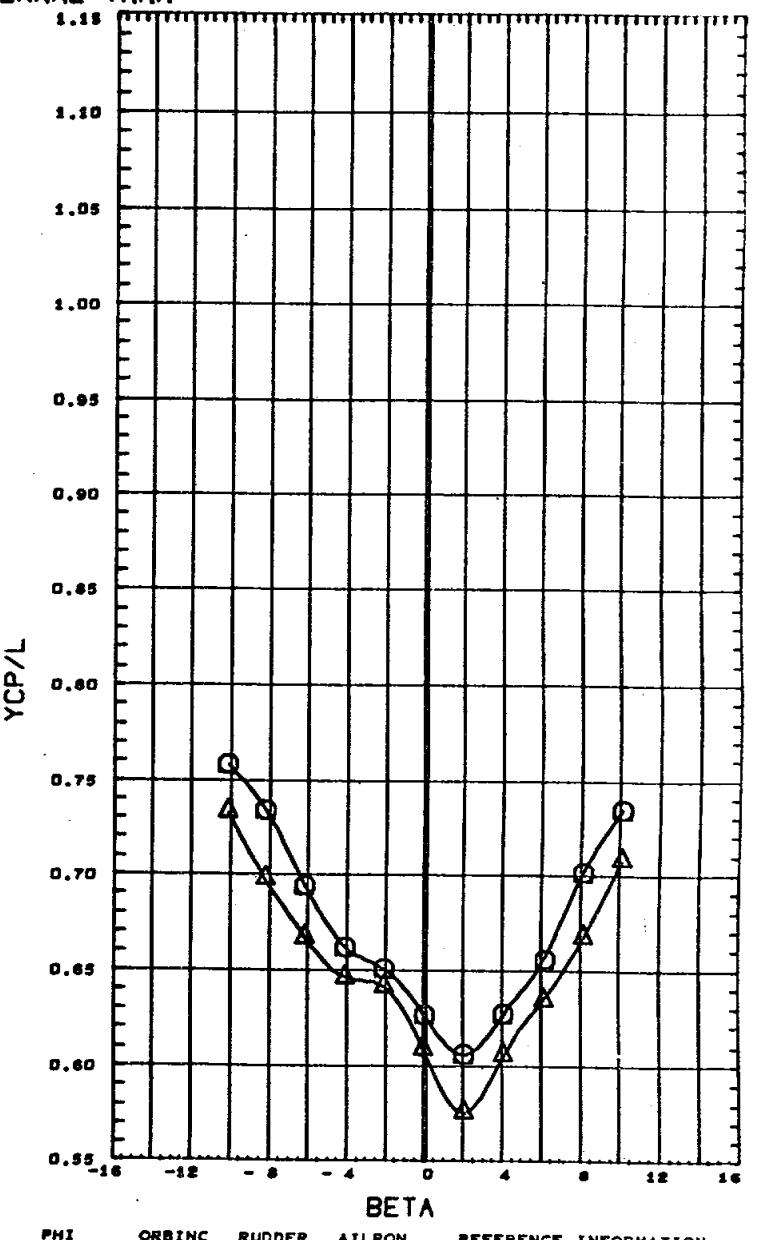
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BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





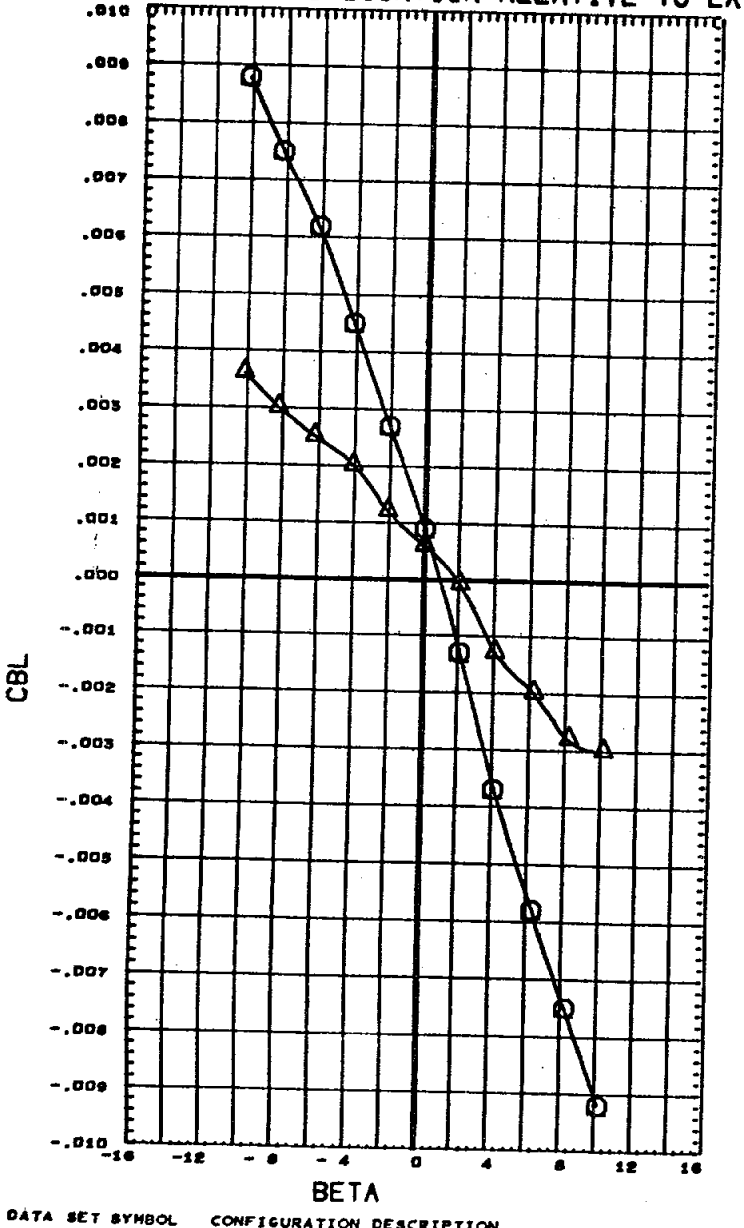
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
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SCALE	0.0040	

MACH .90

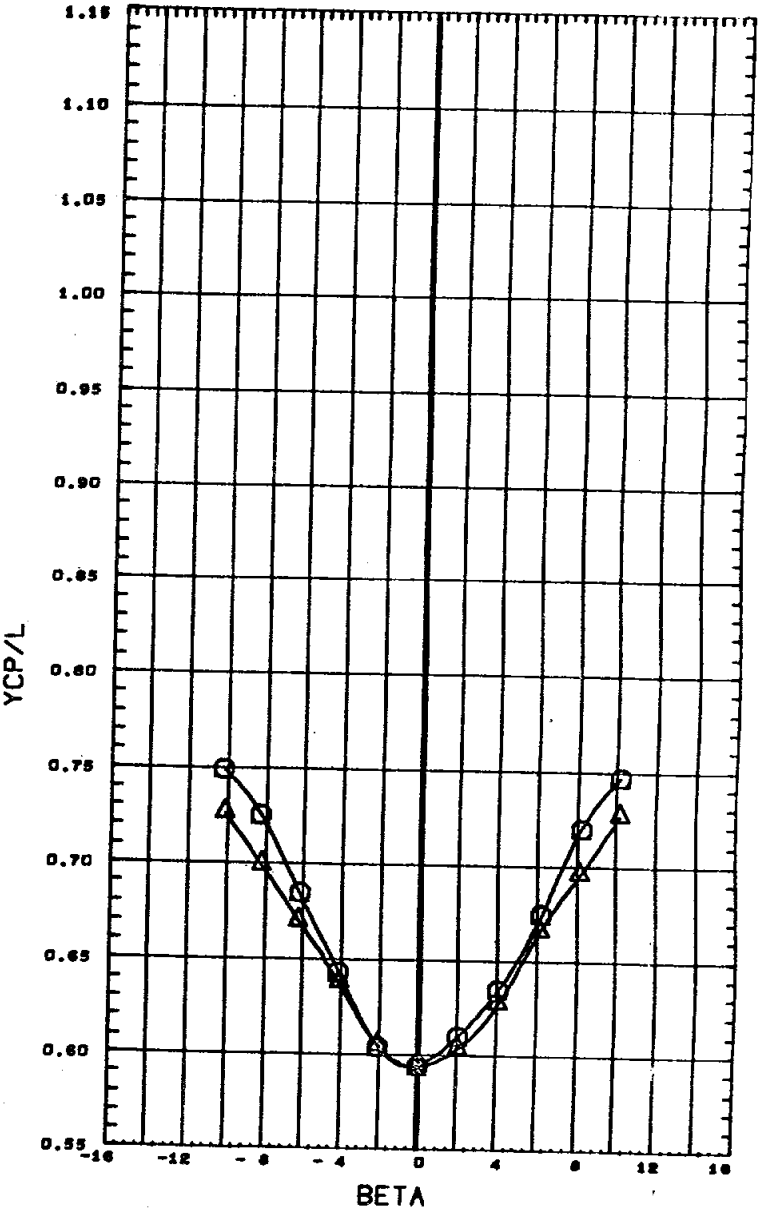
EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77003) M556(IA1) NAR ATP BL LV (T3)(S1)

(C77005) M556(IA1) NAR ATP BL LV (T3)(S1)



PHI
80.000
90.000

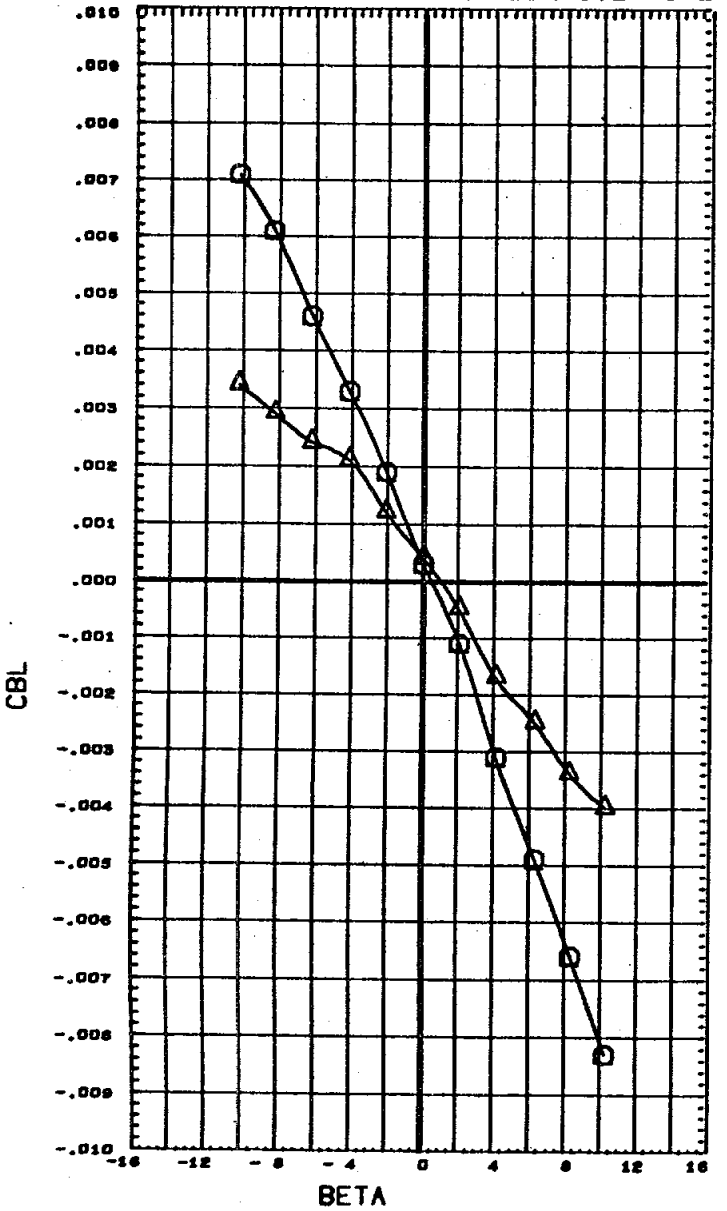
ORBINC RUDDER AILRON

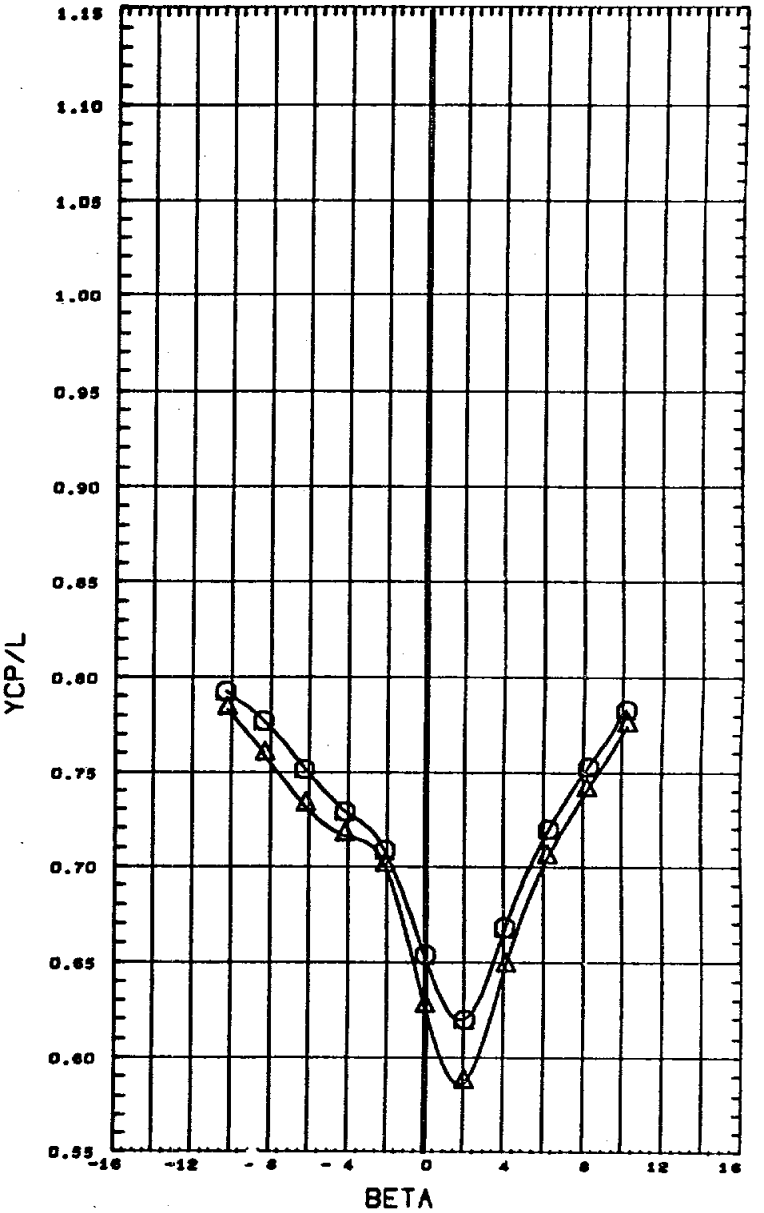
REFERENCE INFORMATION

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BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77003) M556(IA1) NAR ATP BL LV (T3)(S1)

(C77005) M556(IA1) NAR ATP BL LV (T3)(S1)

PHI ORBINC RUDDER AILRON

80.000

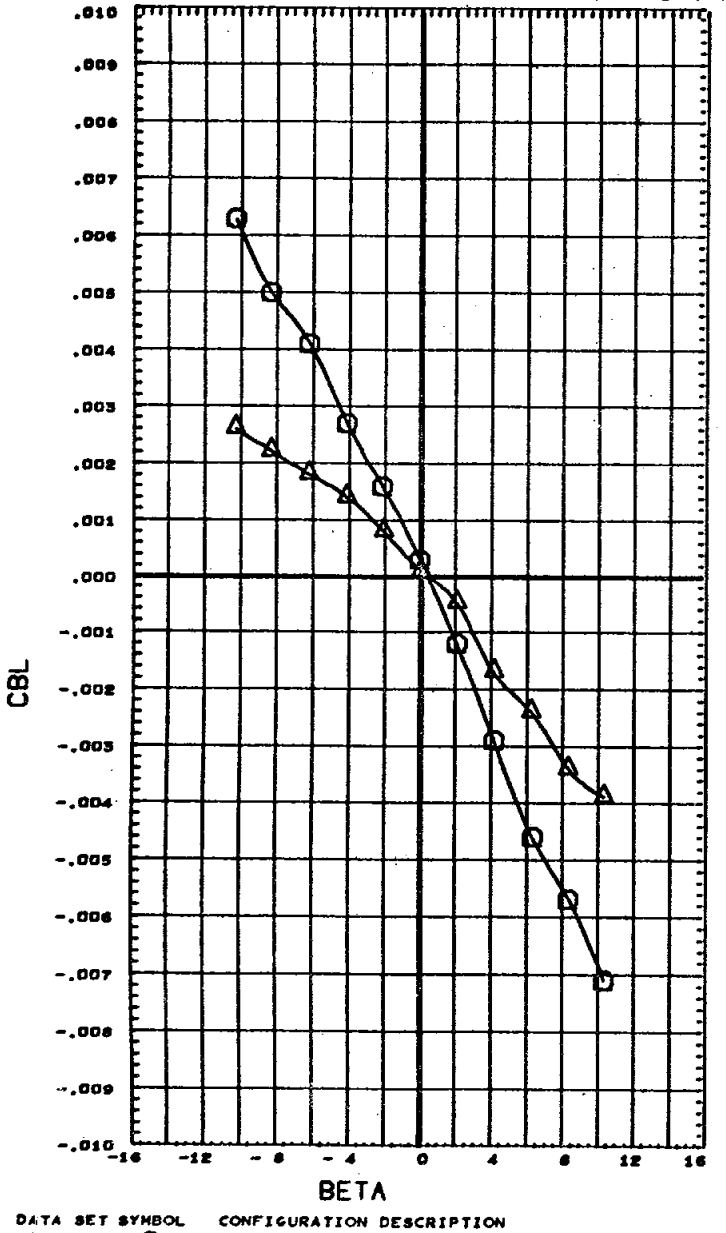
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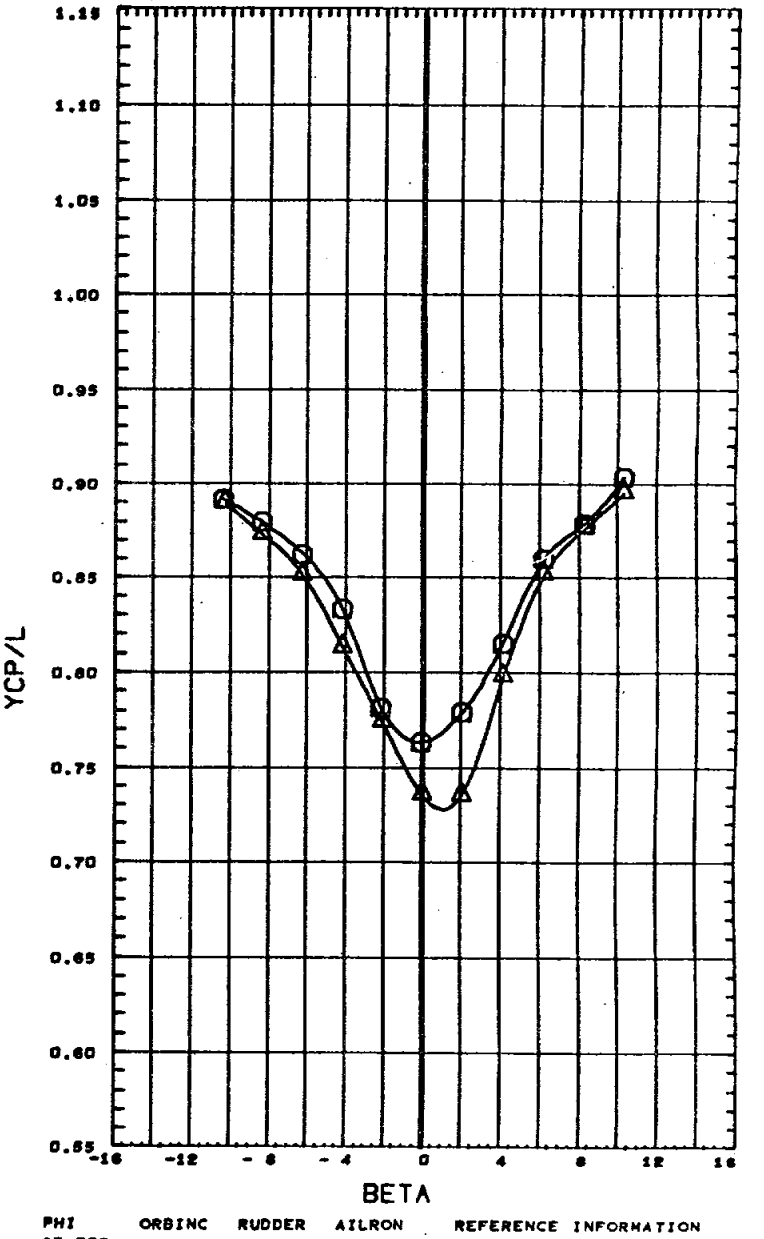
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XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





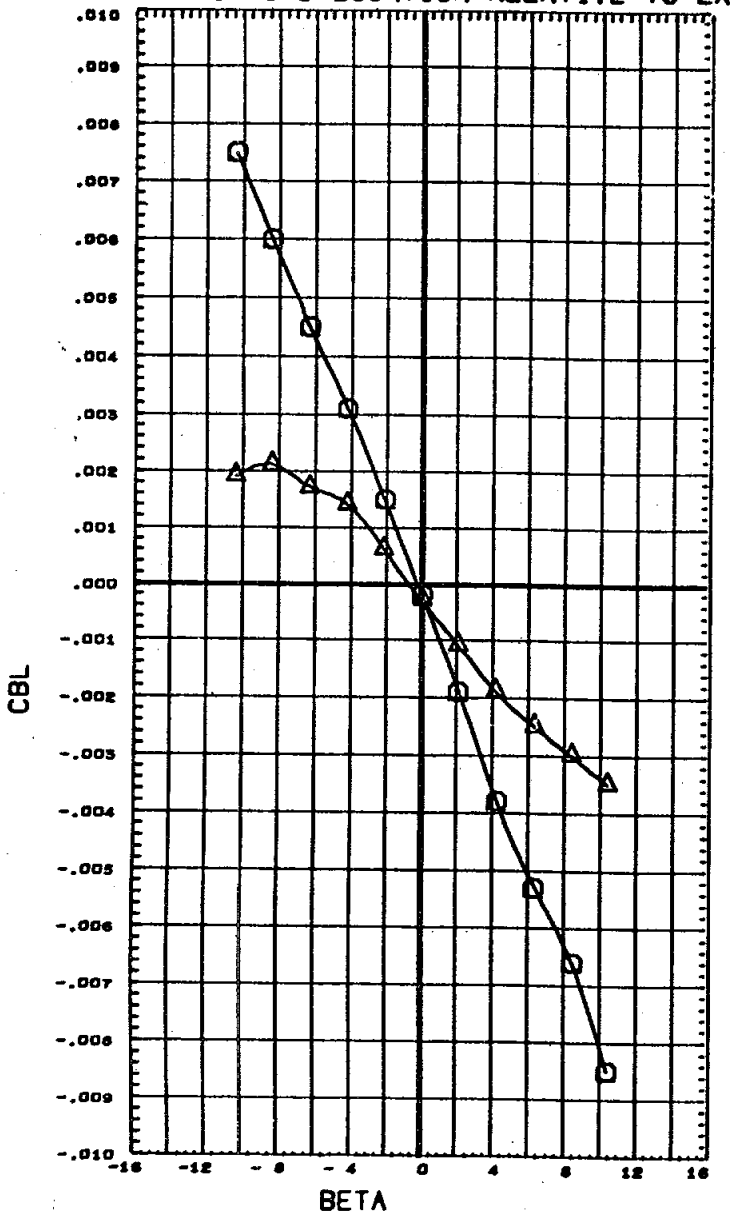
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
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(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

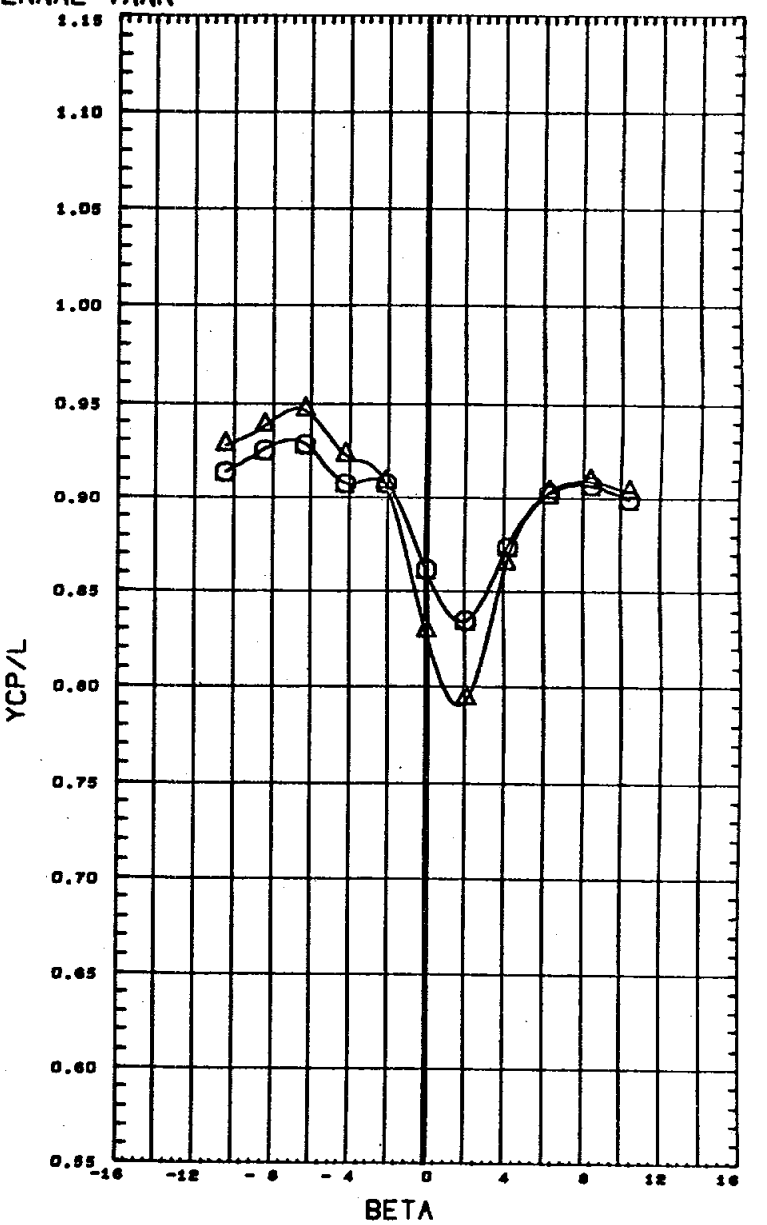
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
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MACH 1.46

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





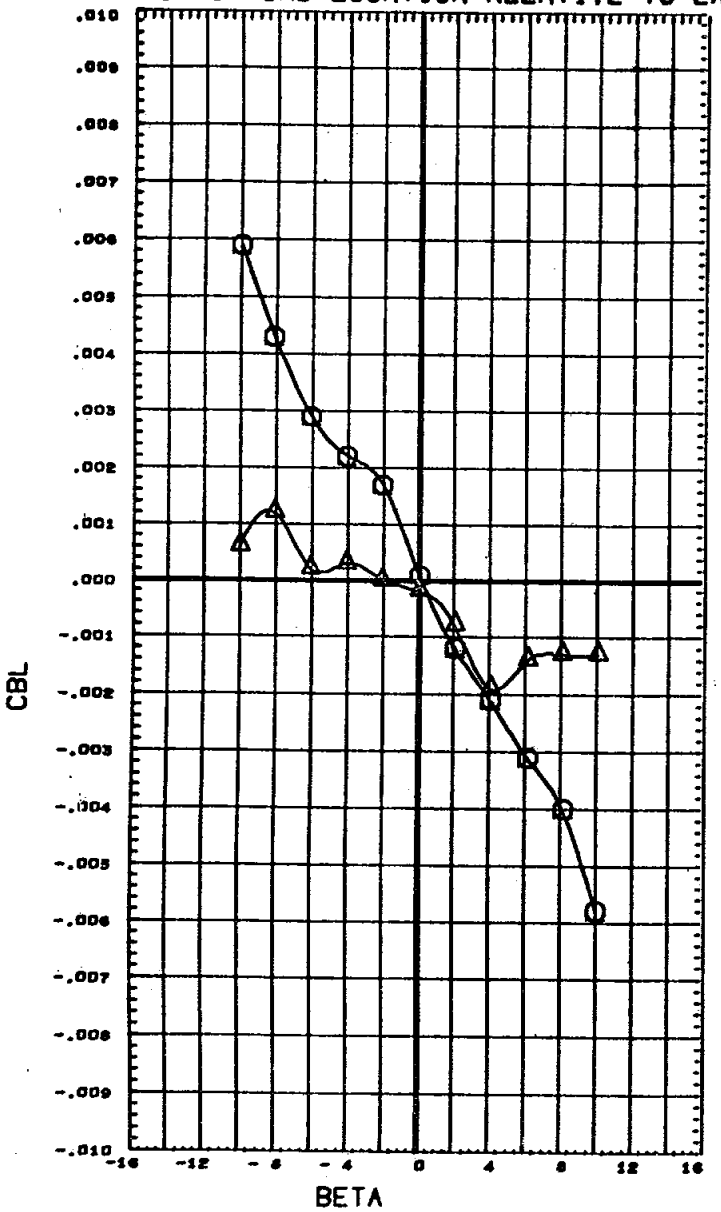
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

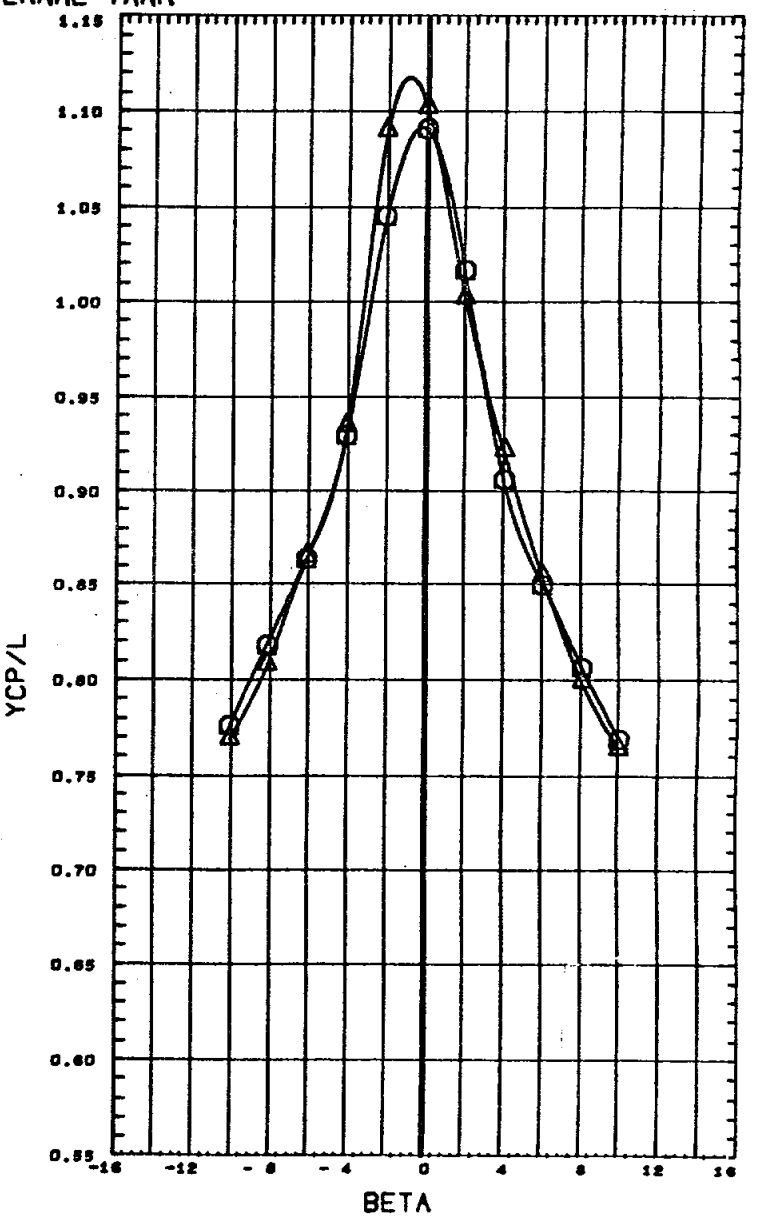
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
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BREF	5.3120	IN.
XMRP	4.6200	IN.
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ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





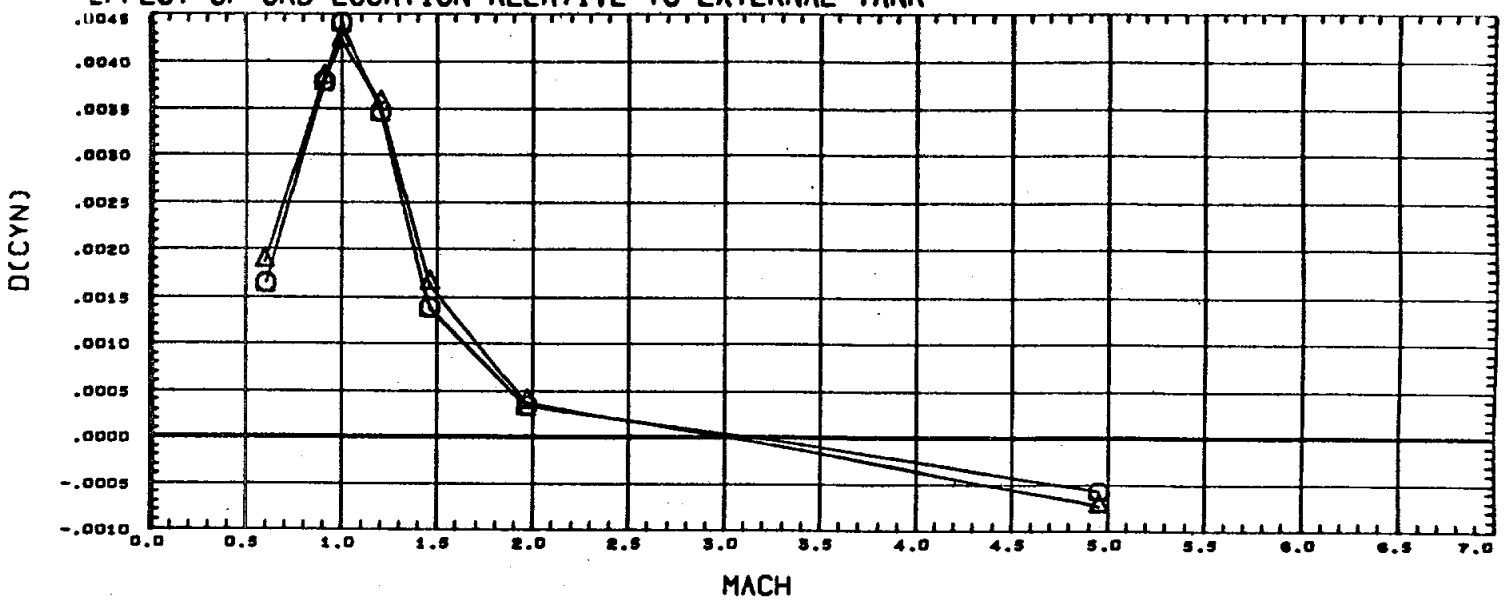
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(C77005)		M556(IA1) NAR ATP BL LV (T3)(S1)

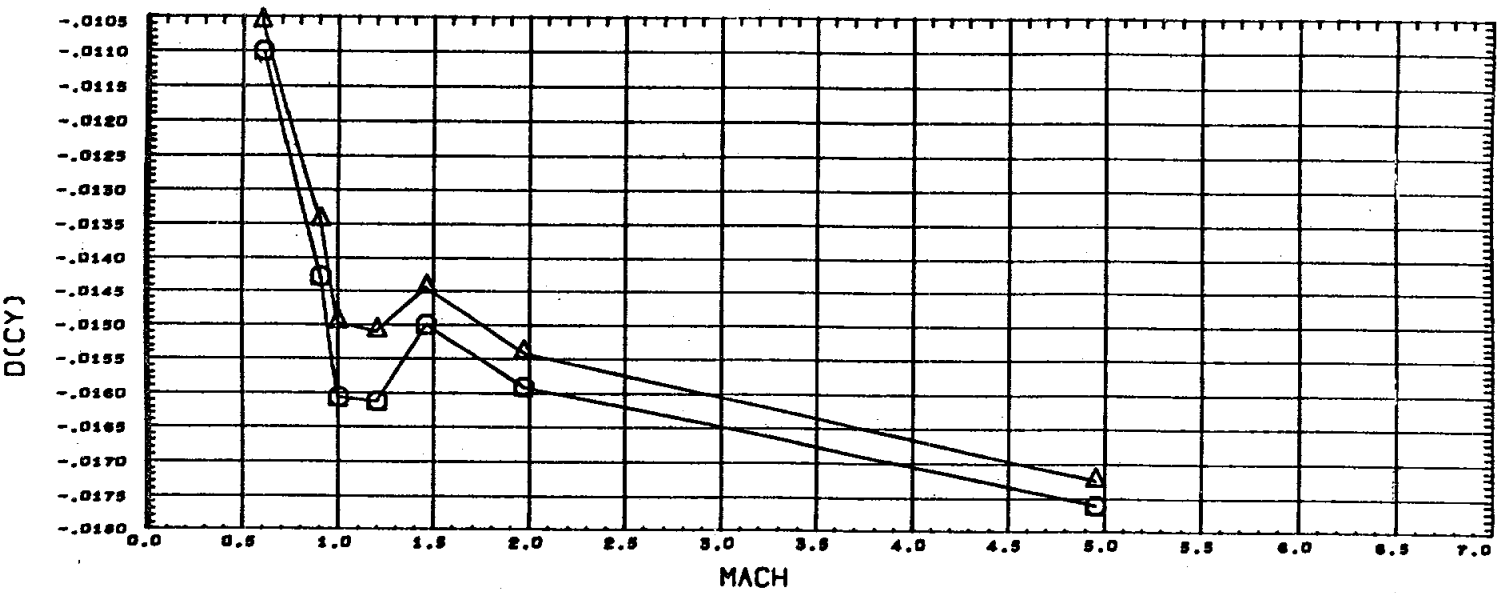
PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
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ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK



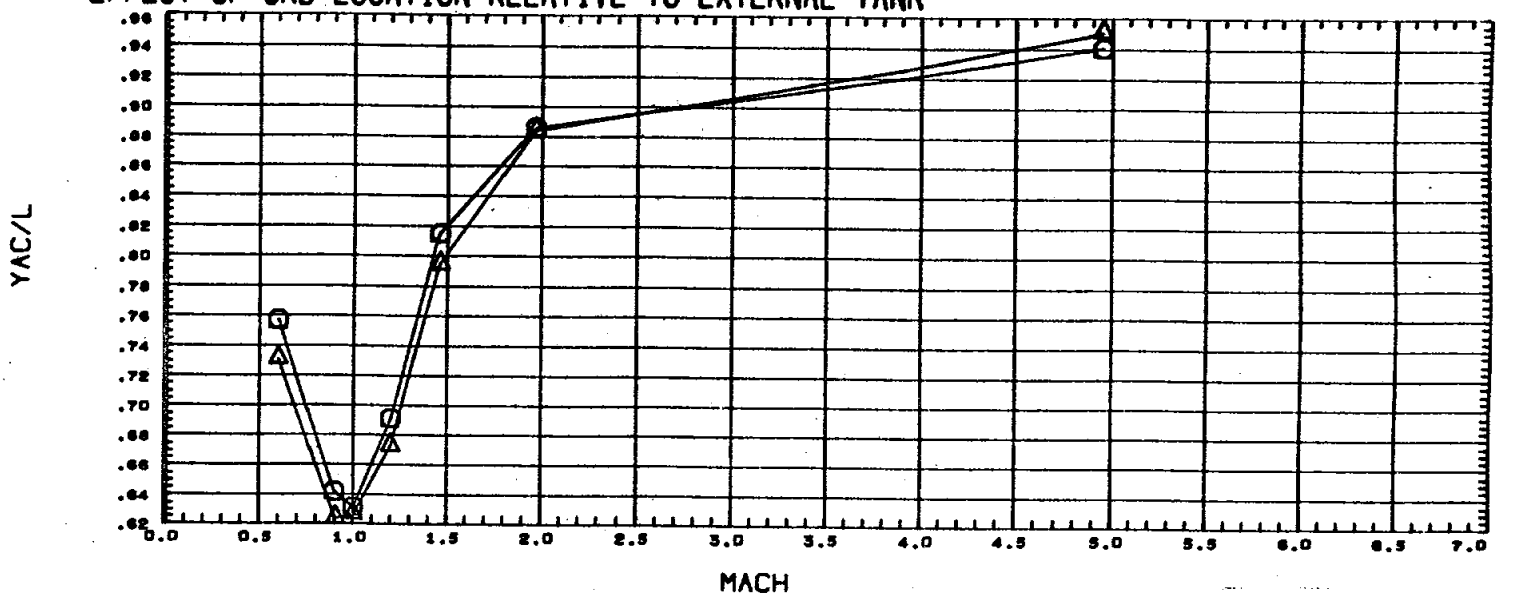


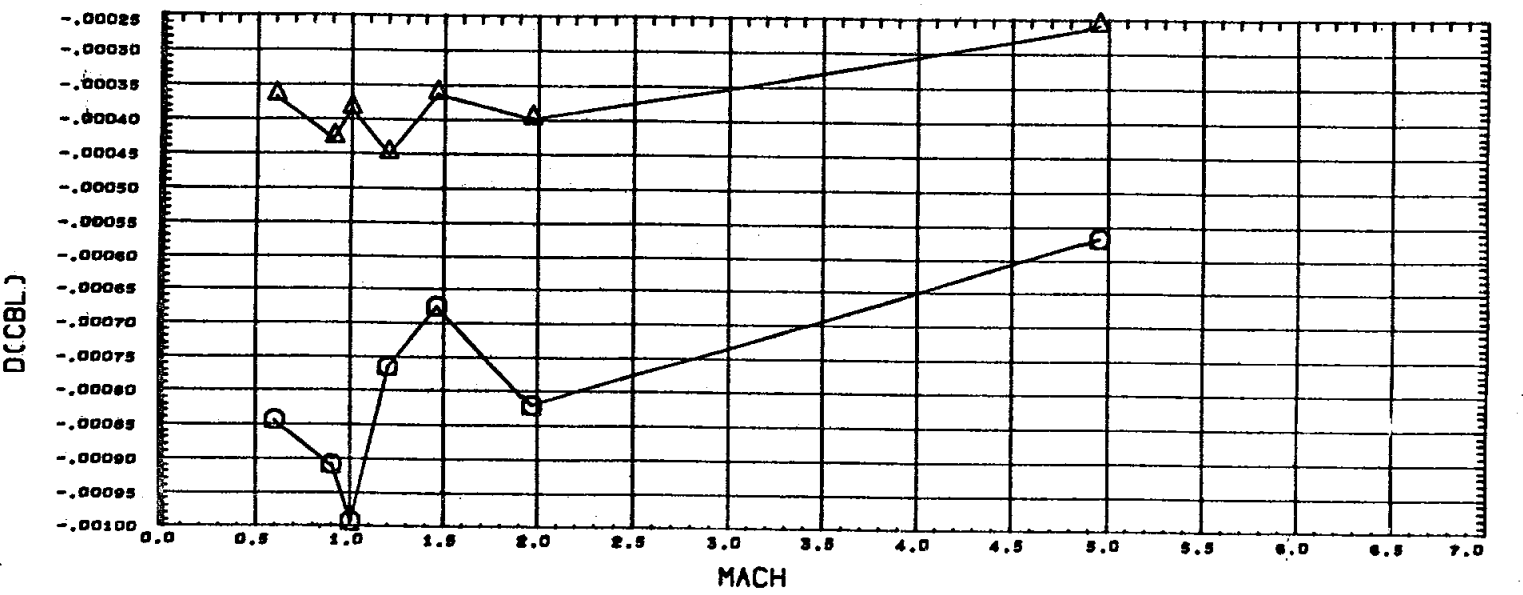
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000			
90.000			

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF SRB LOCATION RELATIVE TO EXTERNAL TANK





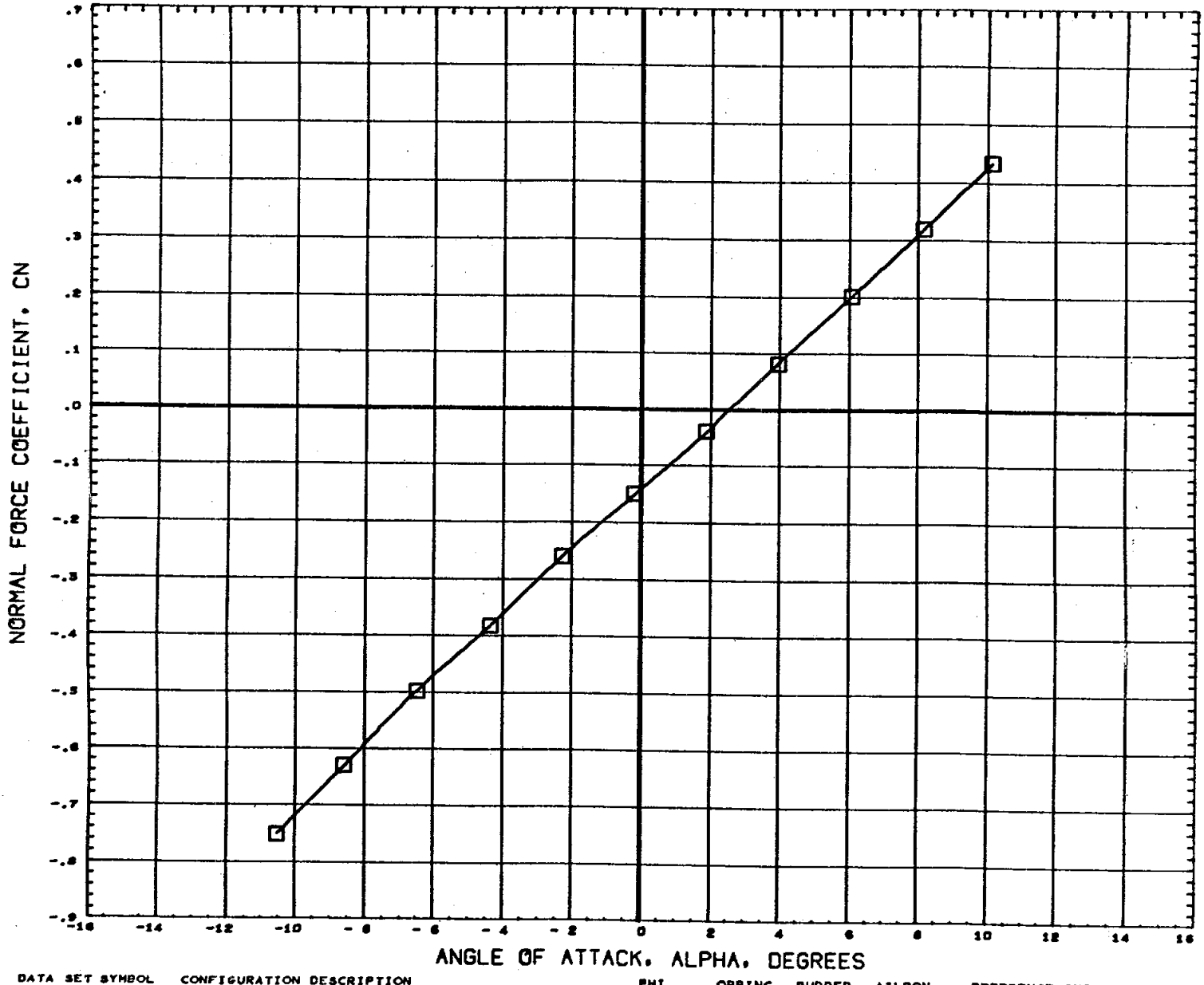
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77003)	○	M556(IA1) NAR ATP BL LV (T3)(S1)
(C77005)	△	M556(IA1) NAR ATP BL LV (T3)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000			
90.000			

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

EFFECT OF AILERON



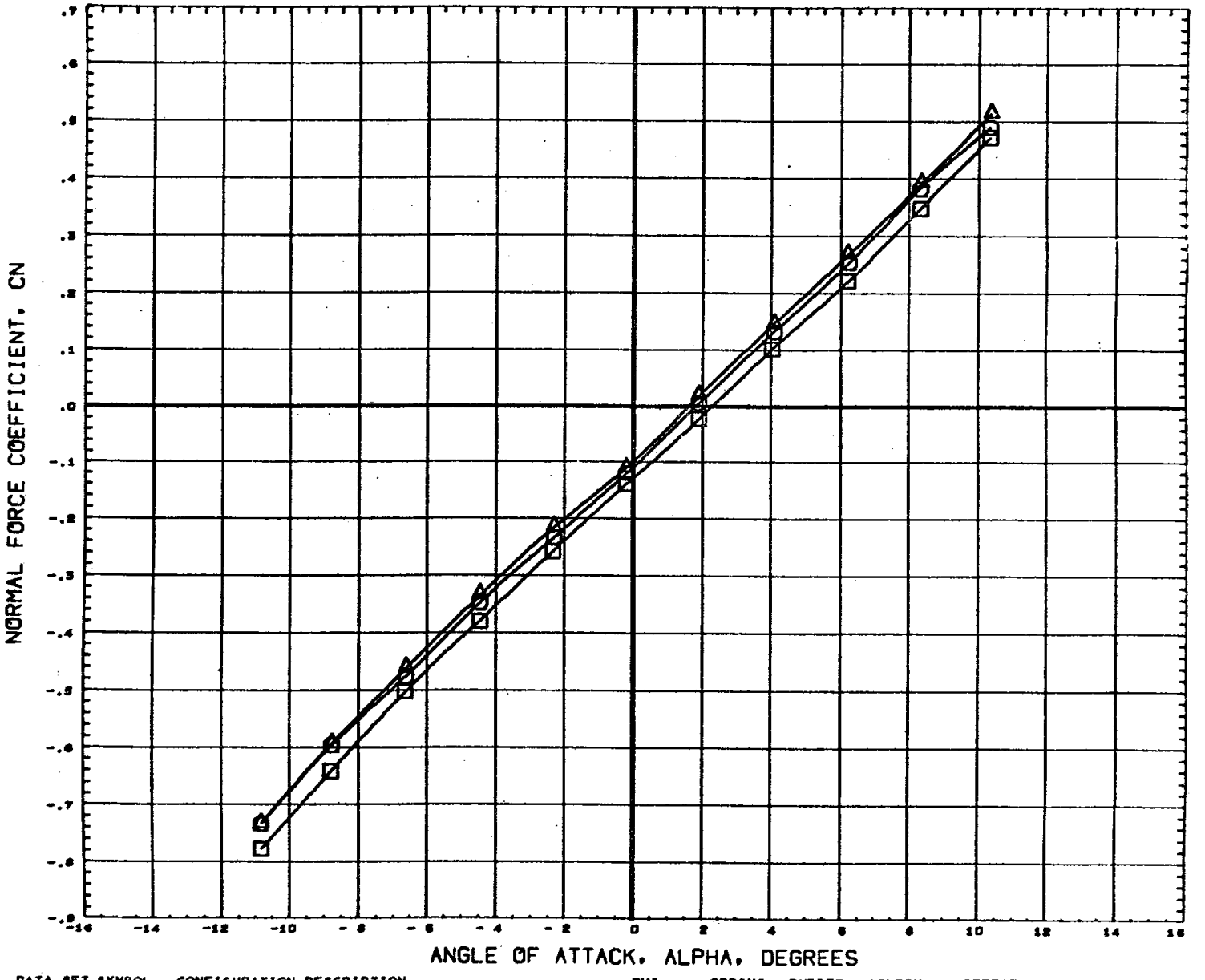
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
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SCALE	0.0040	

MACH .60

EFFECT OF AILERON

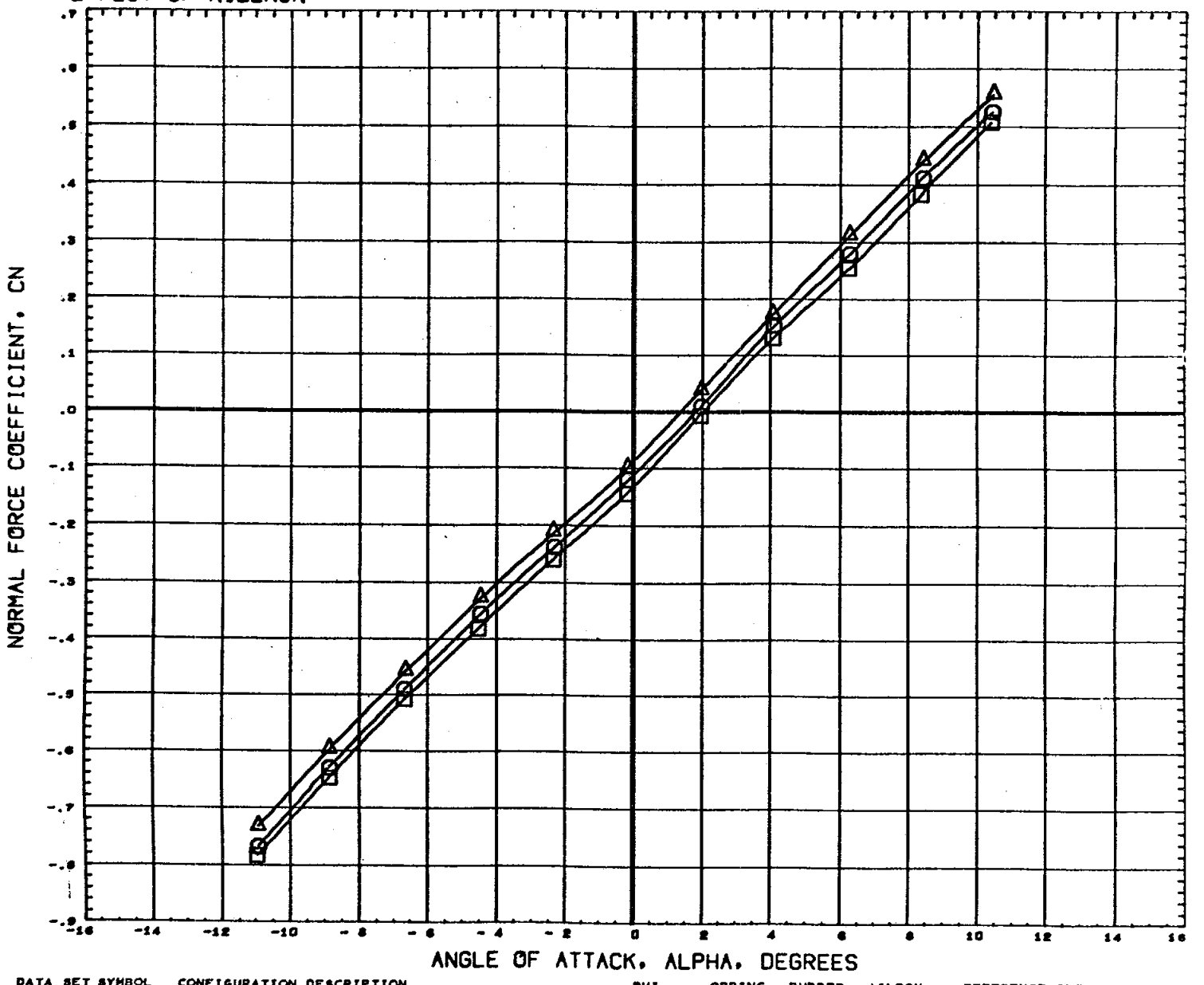


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



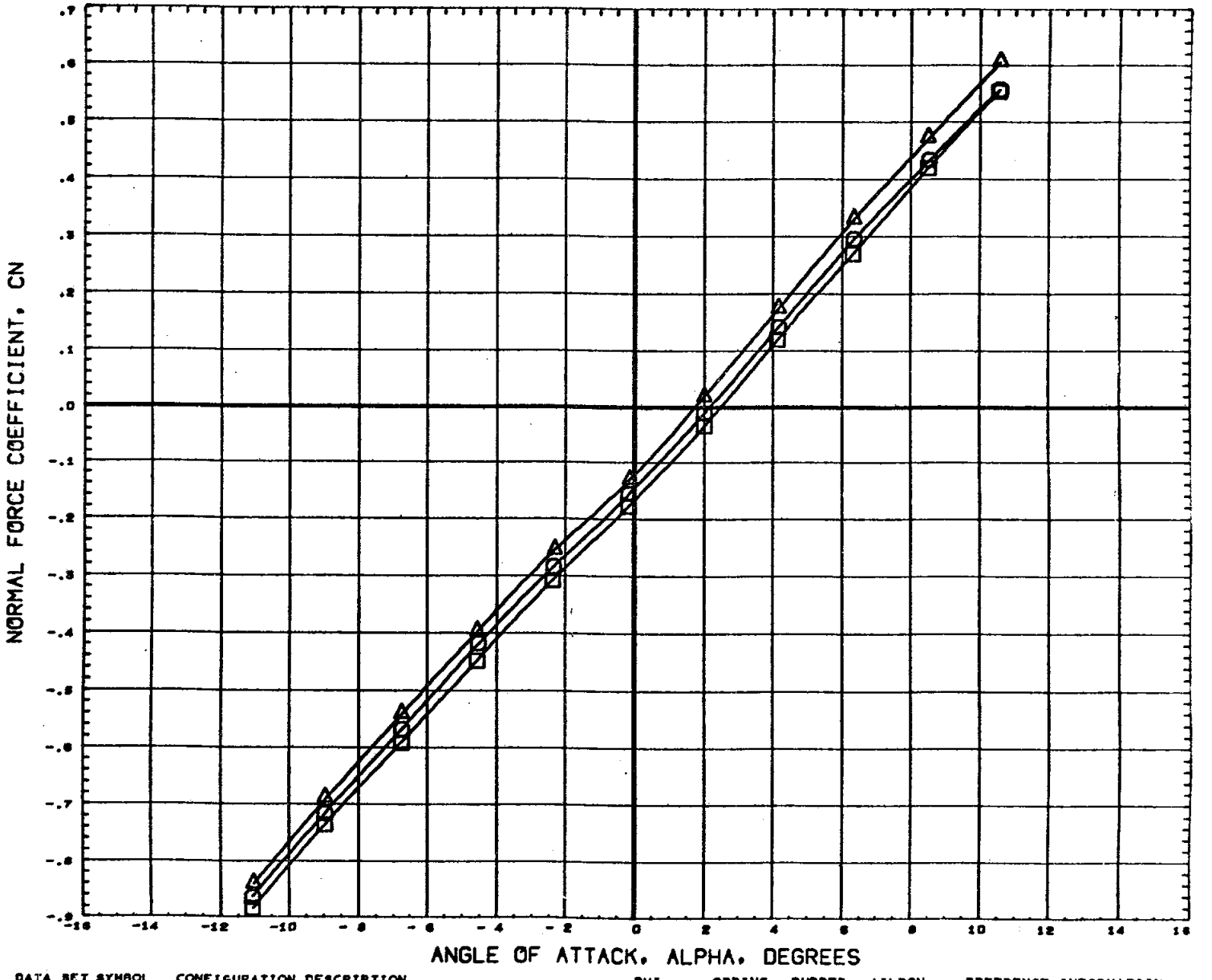
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



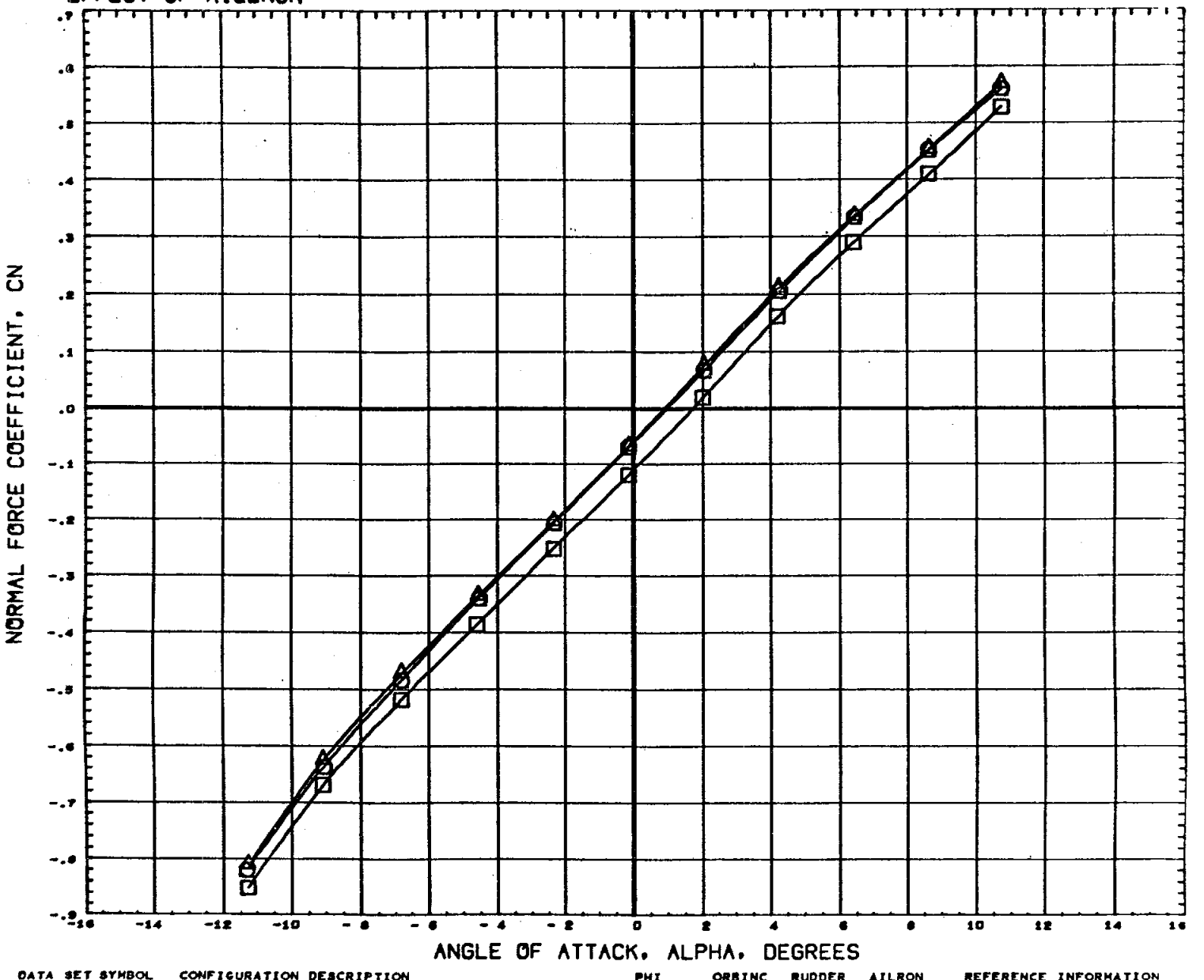
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

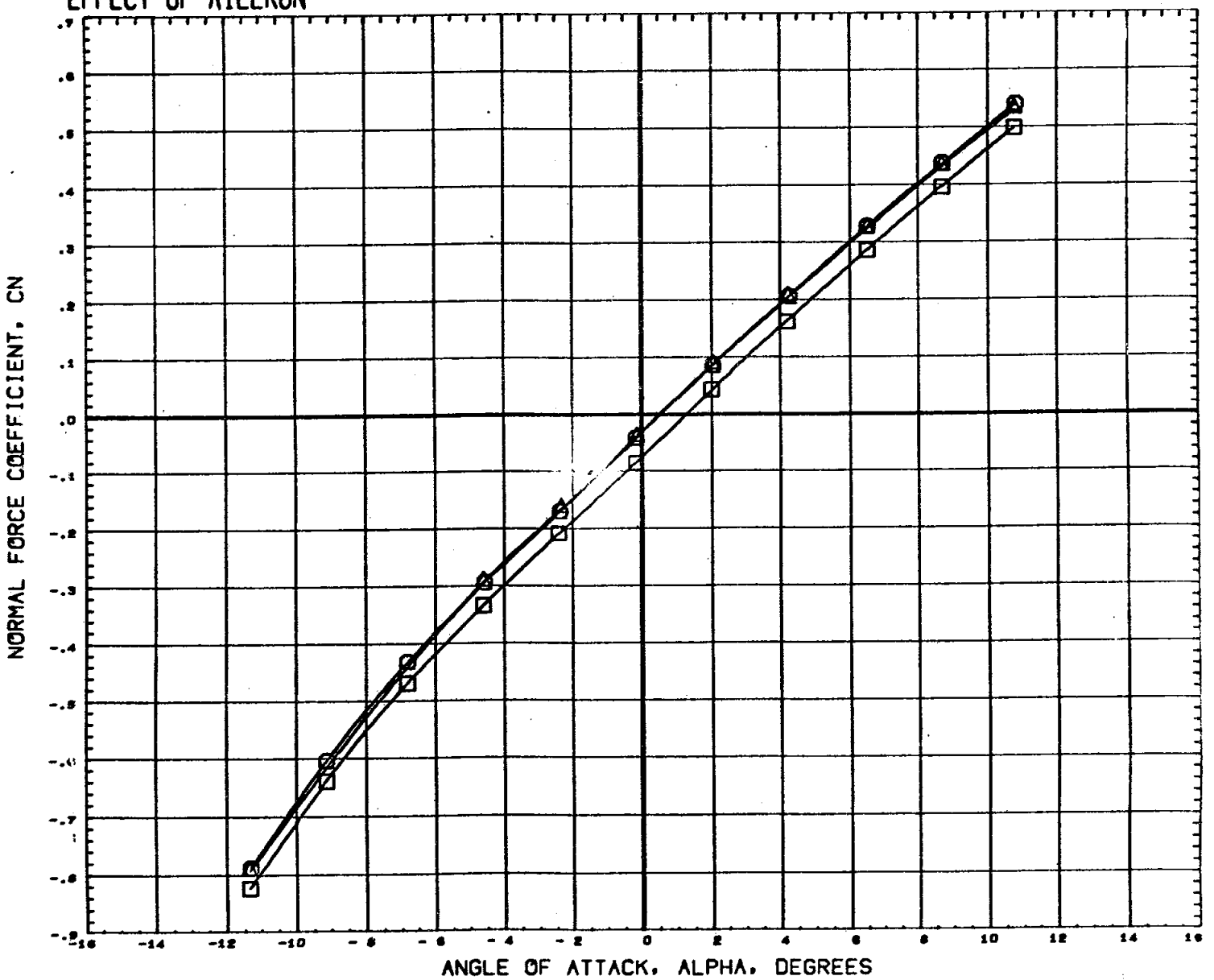


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON

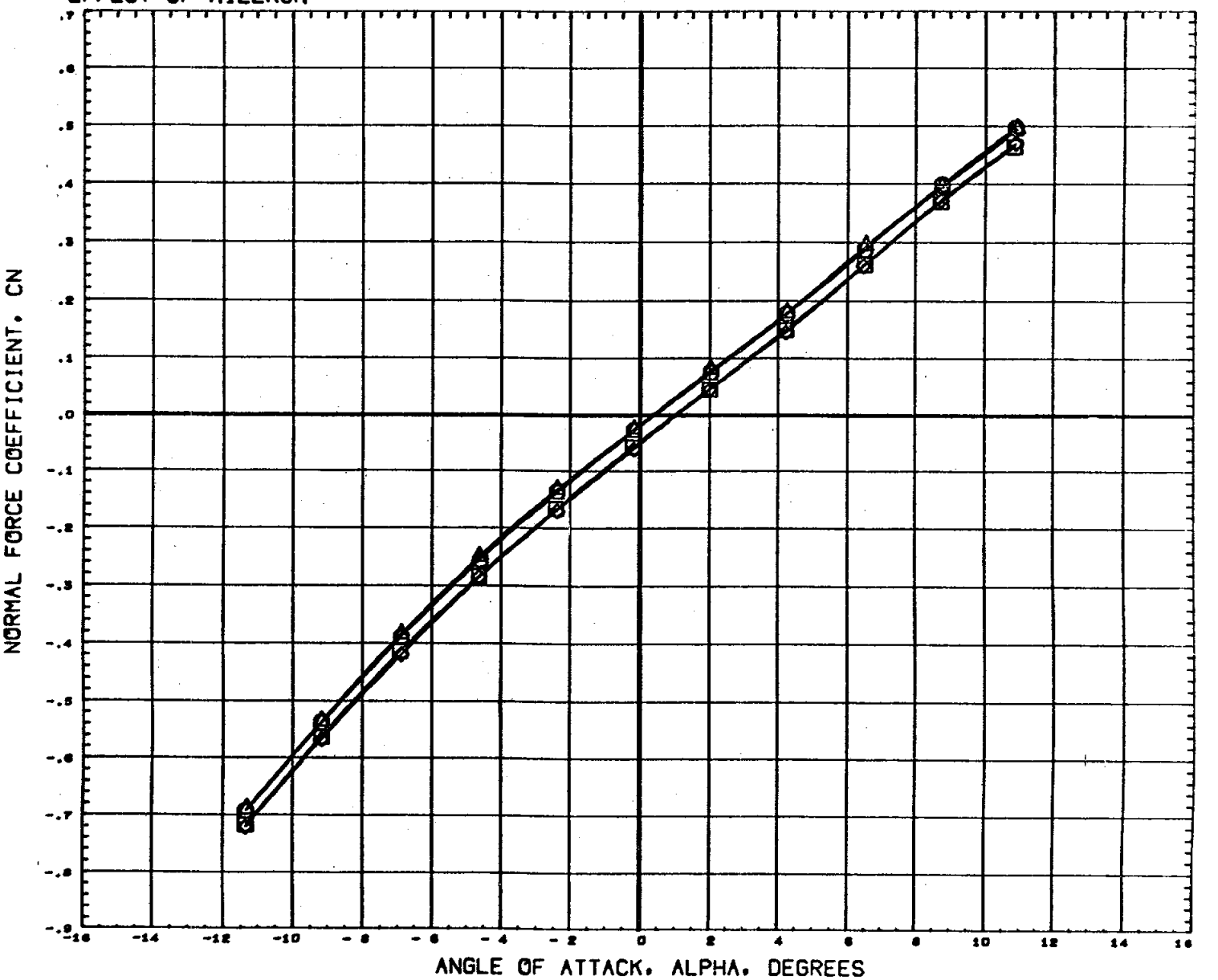


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	90.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	90.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	90.000	-1.200	0.000	10.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	90.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON



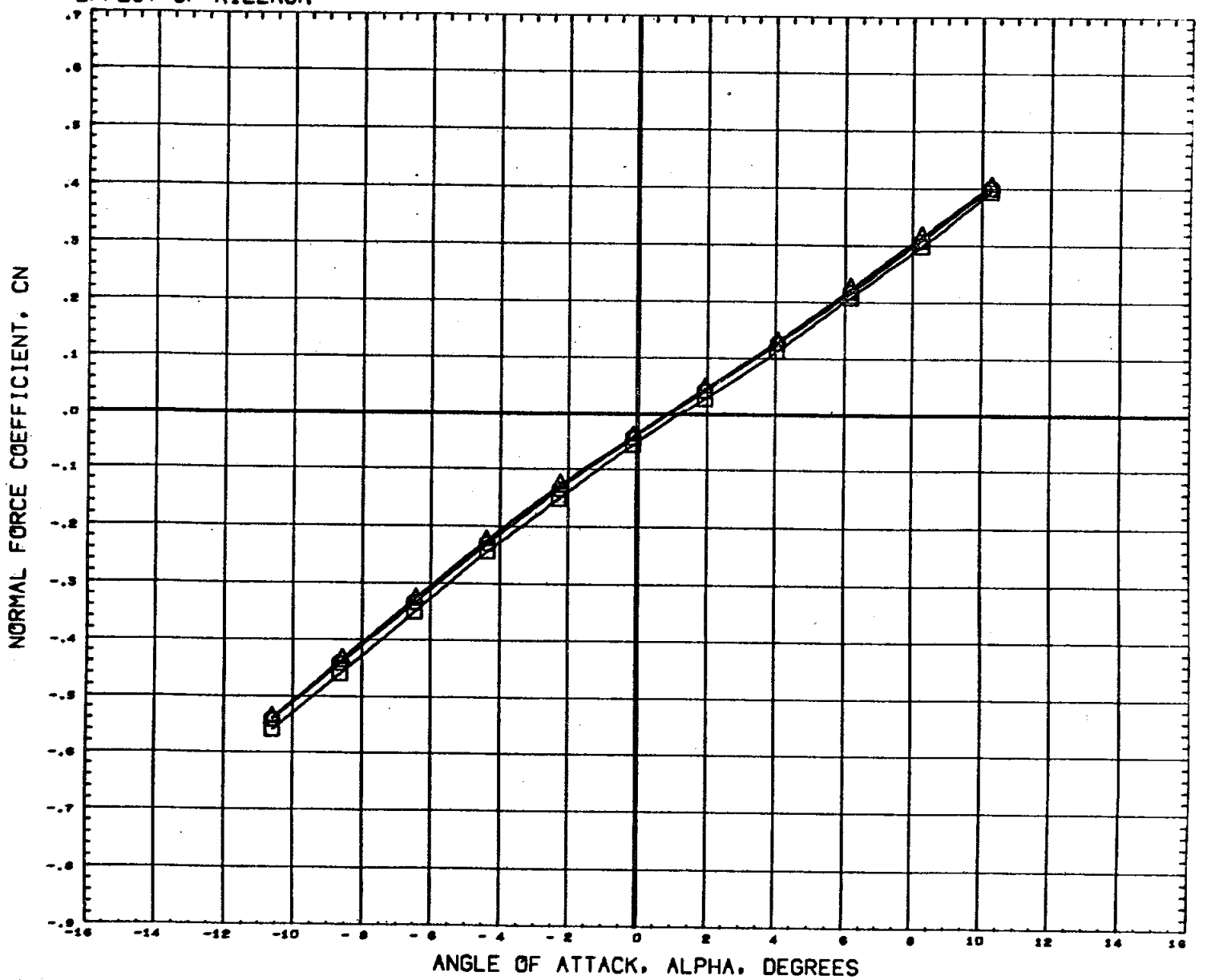
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



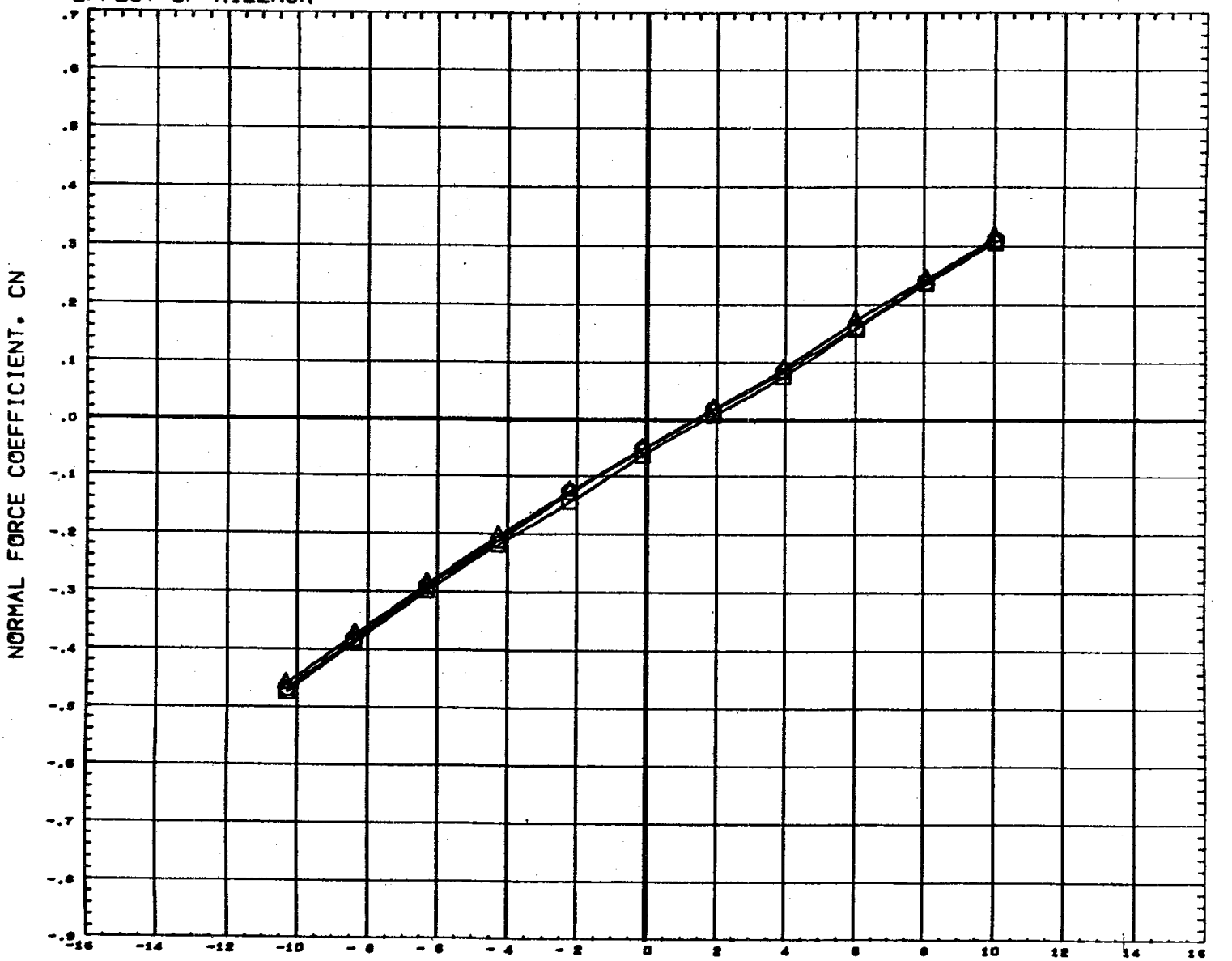
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



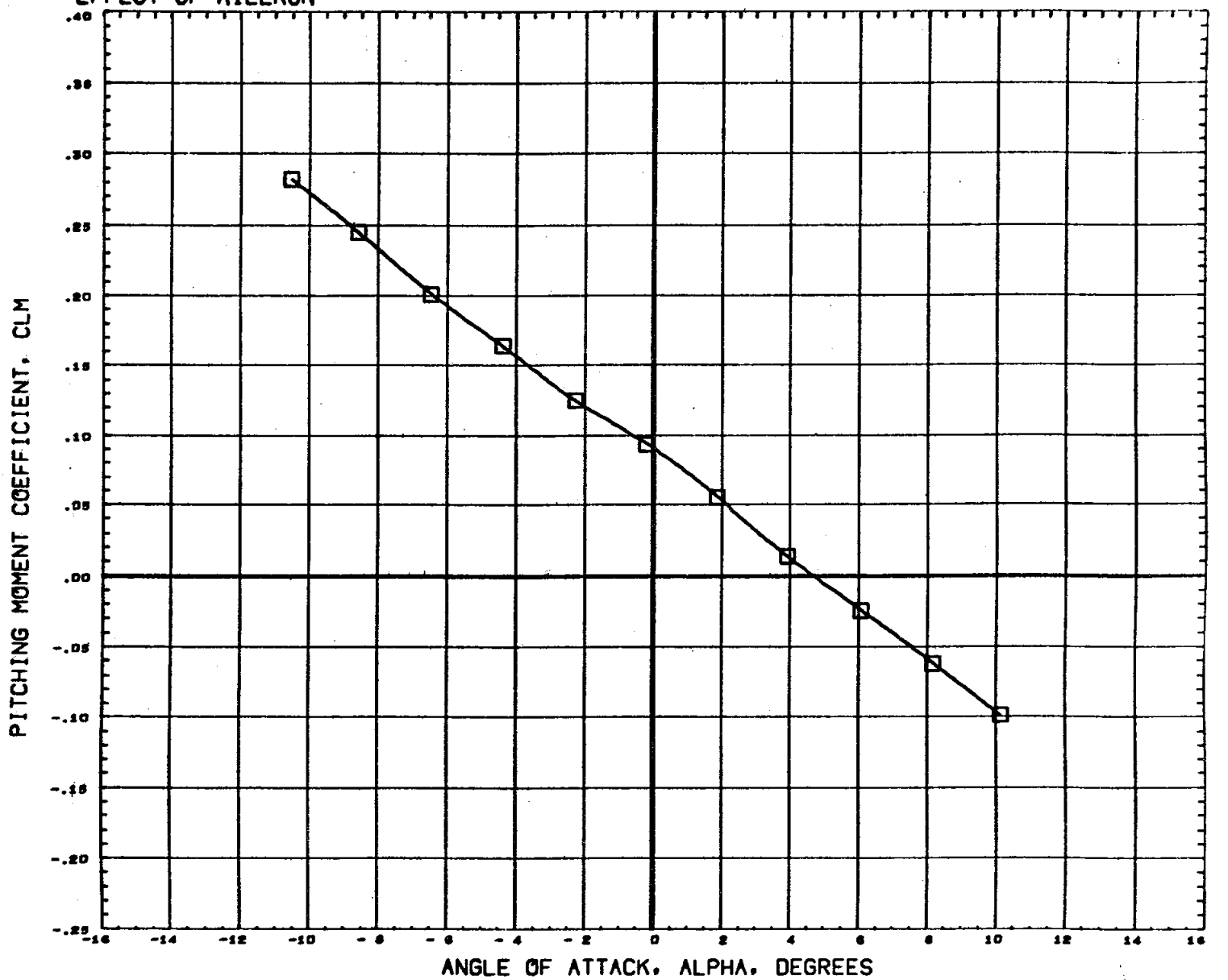
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON

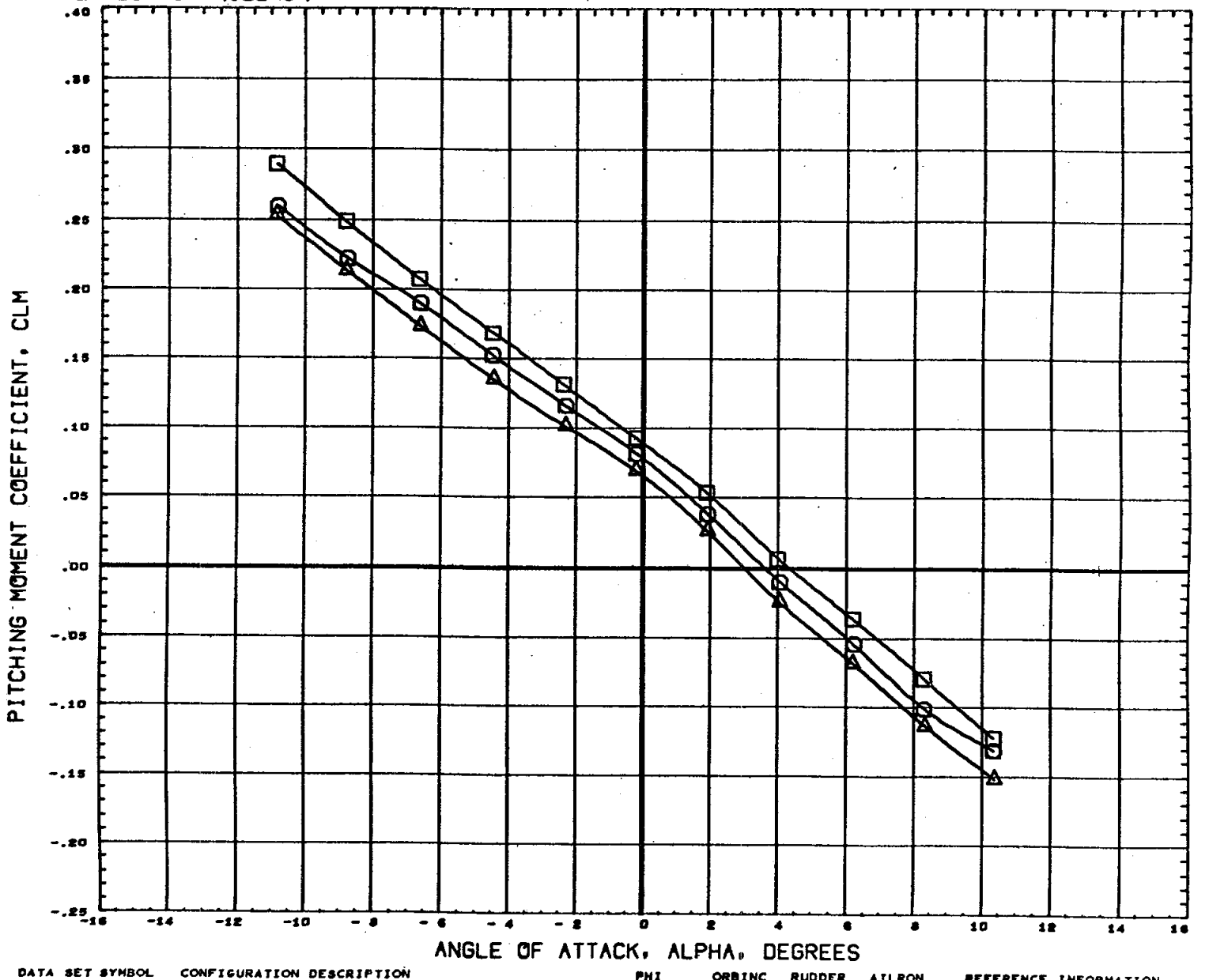


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	10.000
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(C77018)	□	M356(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



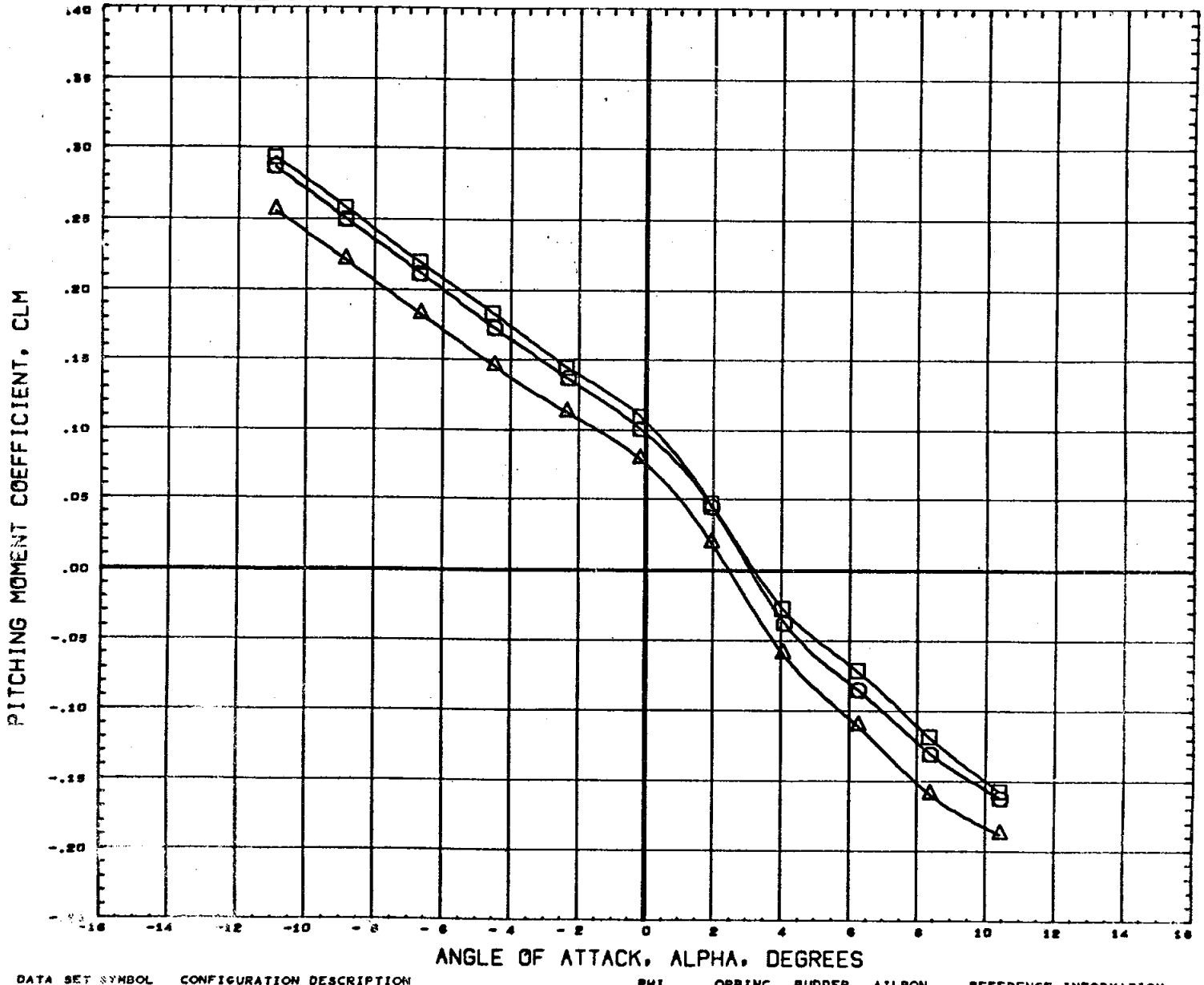
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



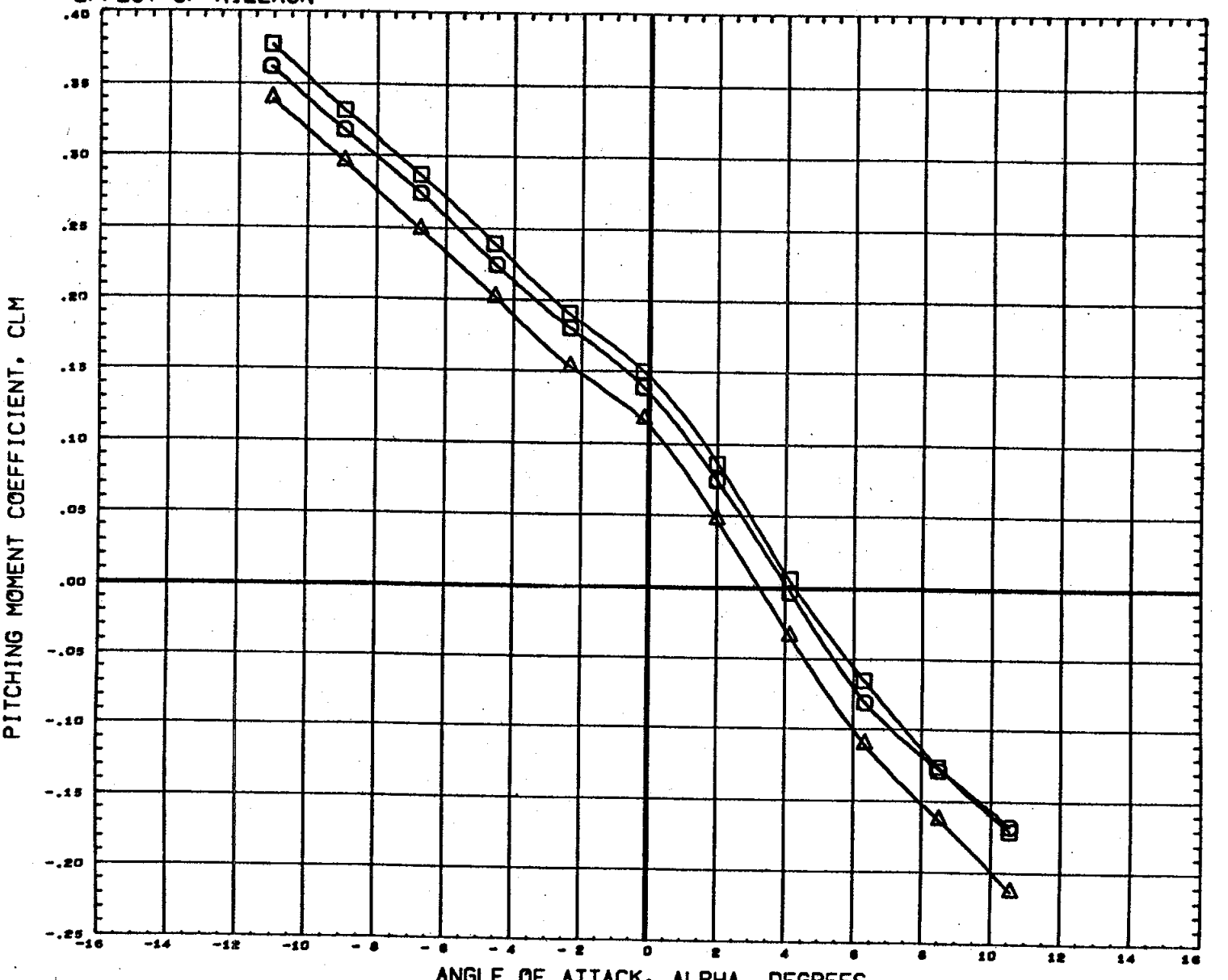
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



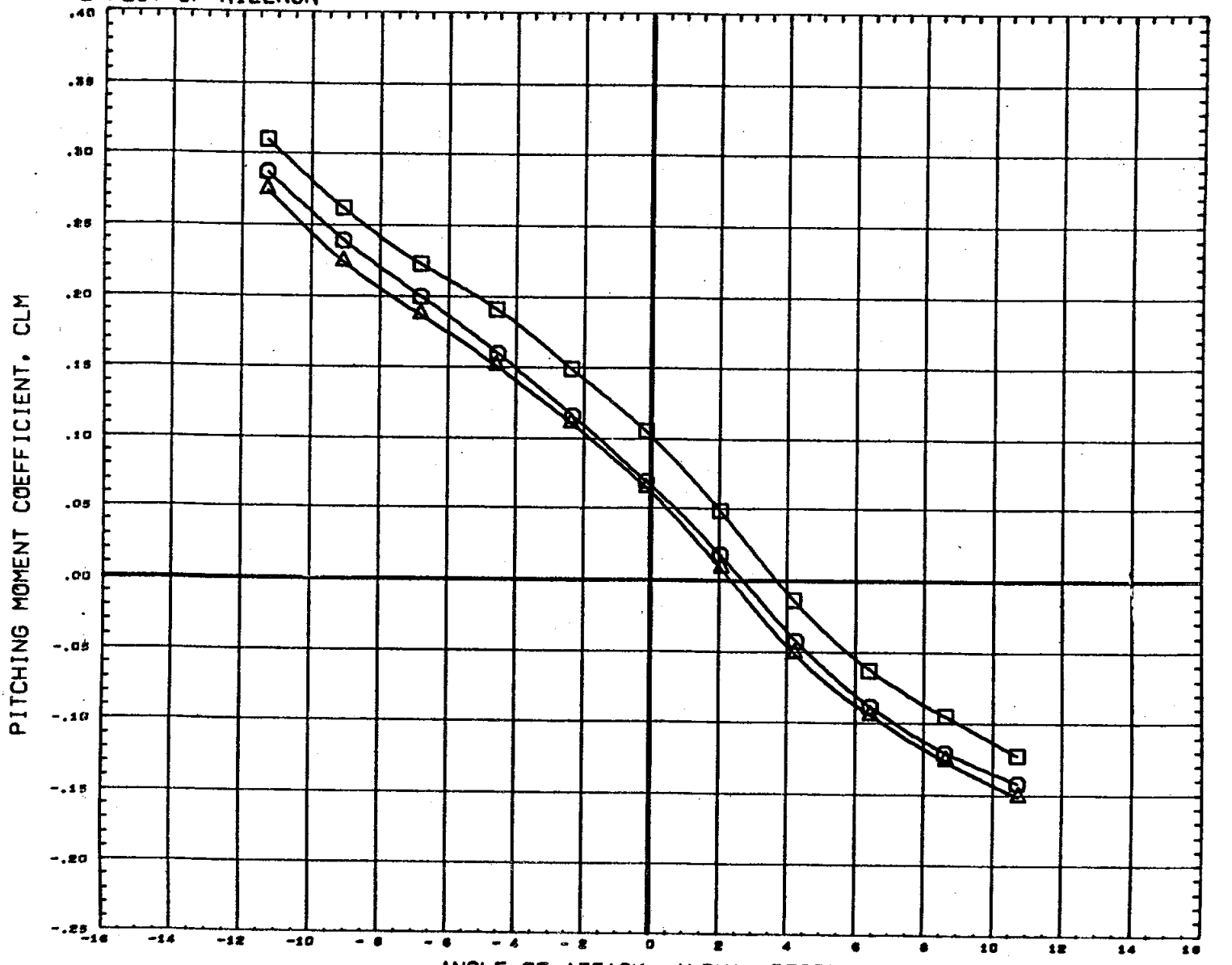
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	3.3120	IN.
BREF	3.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



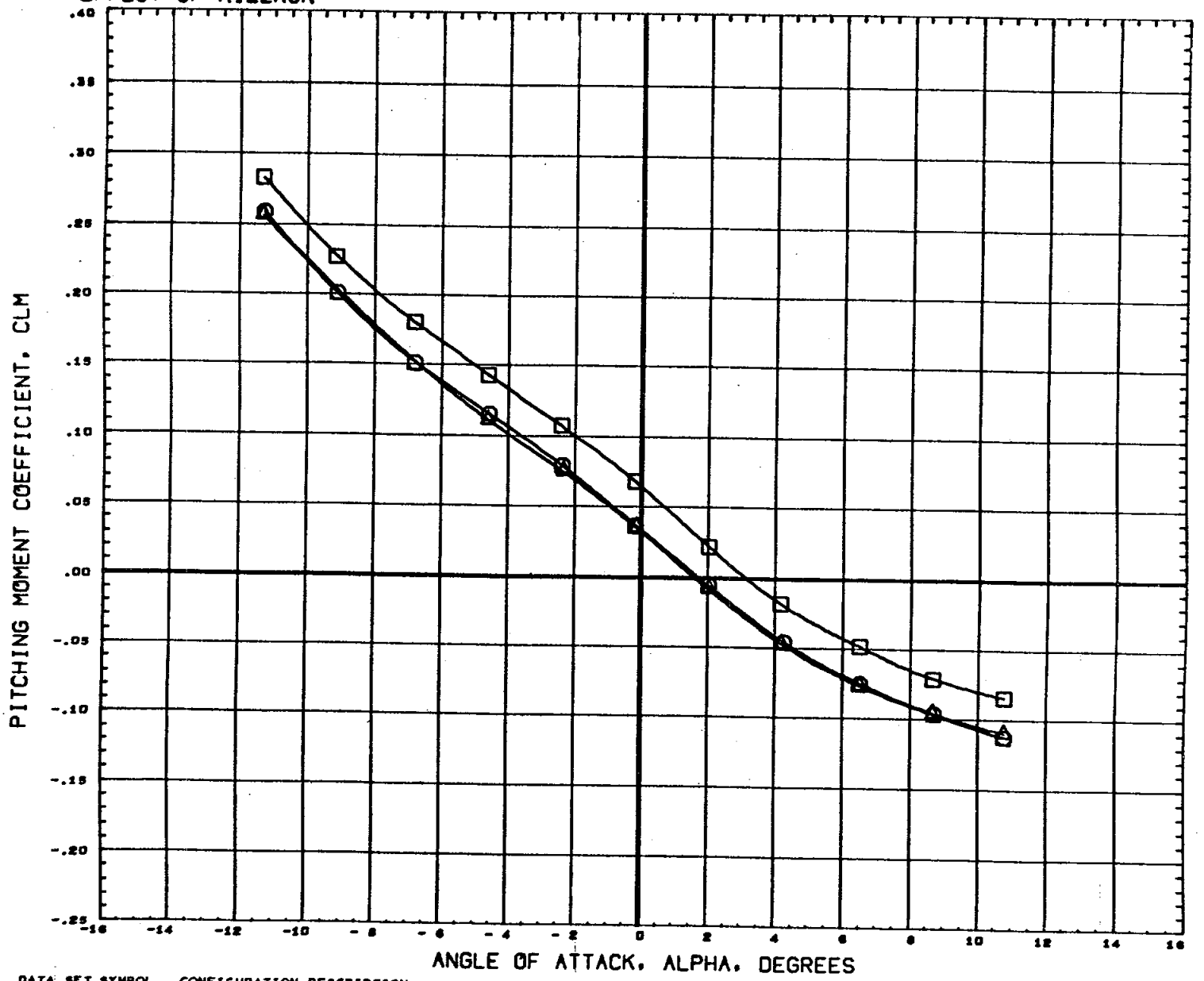
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



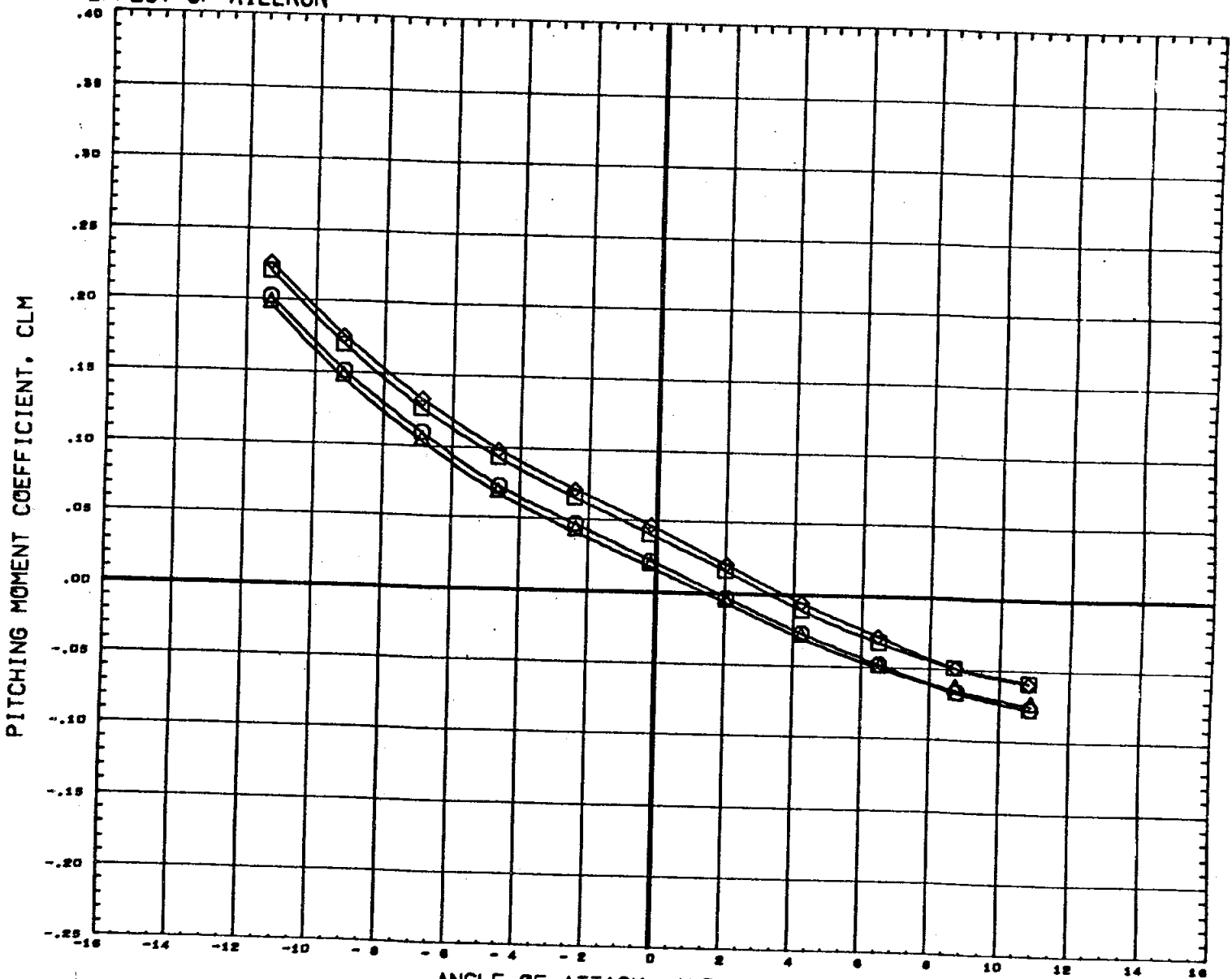
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

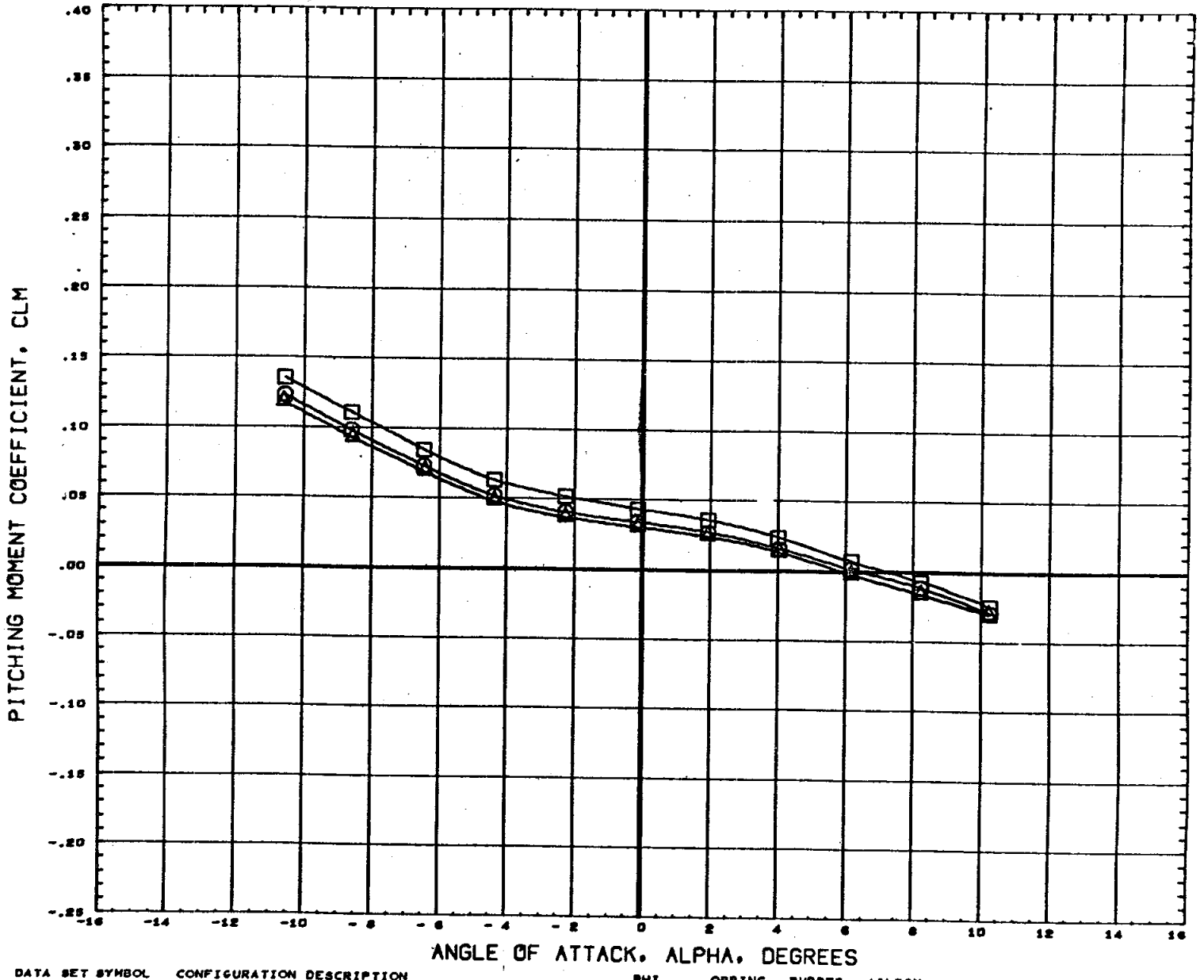
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



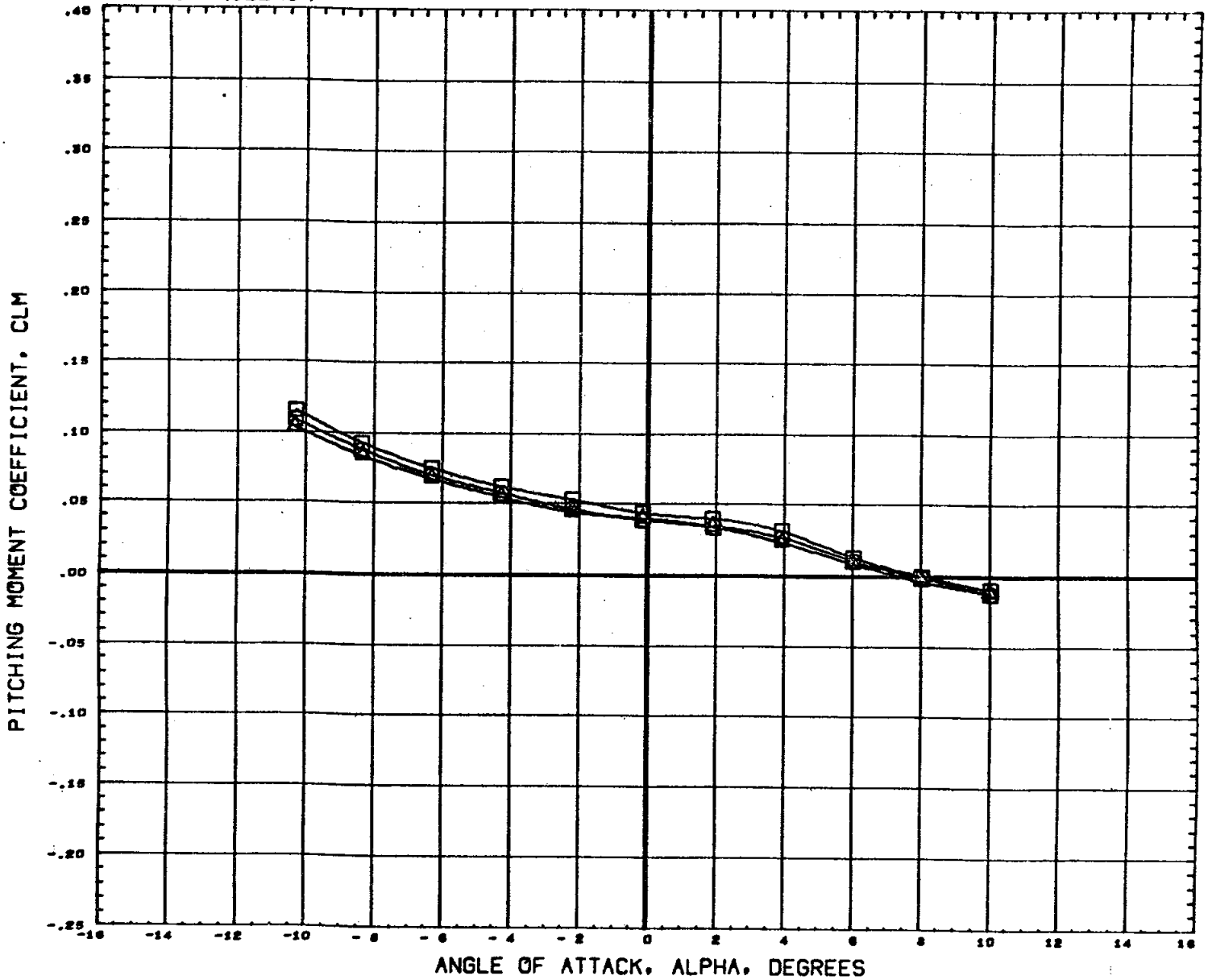
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



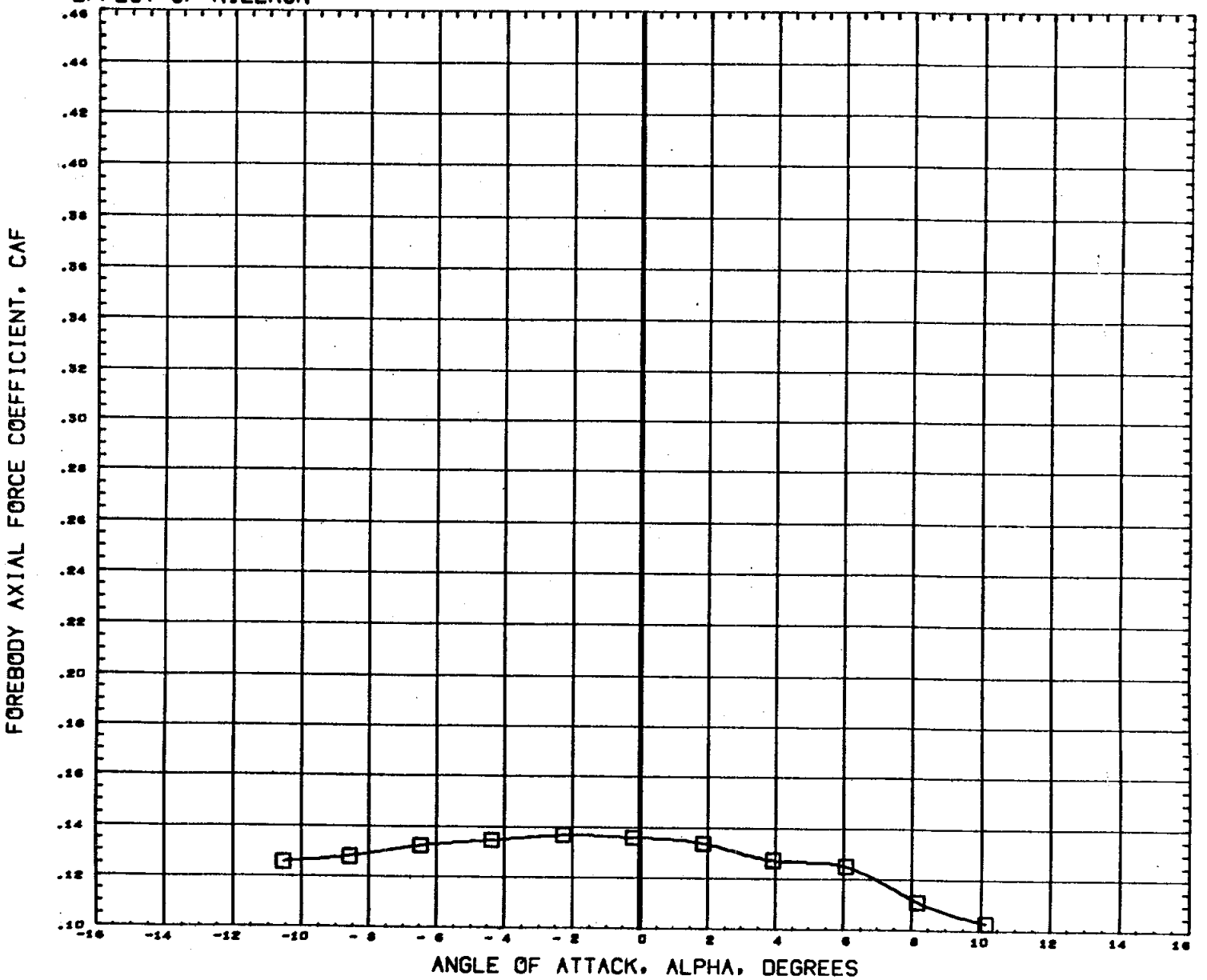
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77054)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON



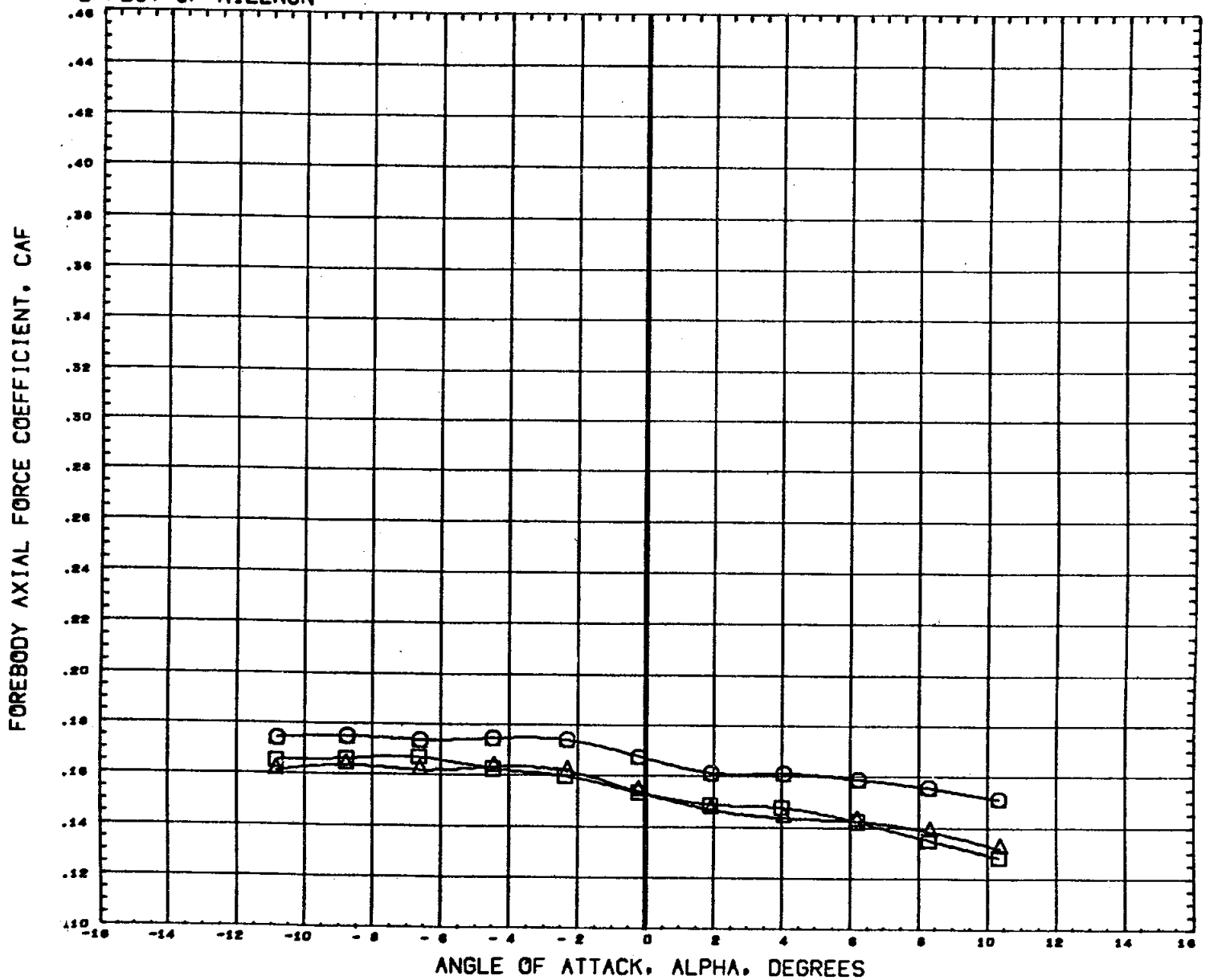
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

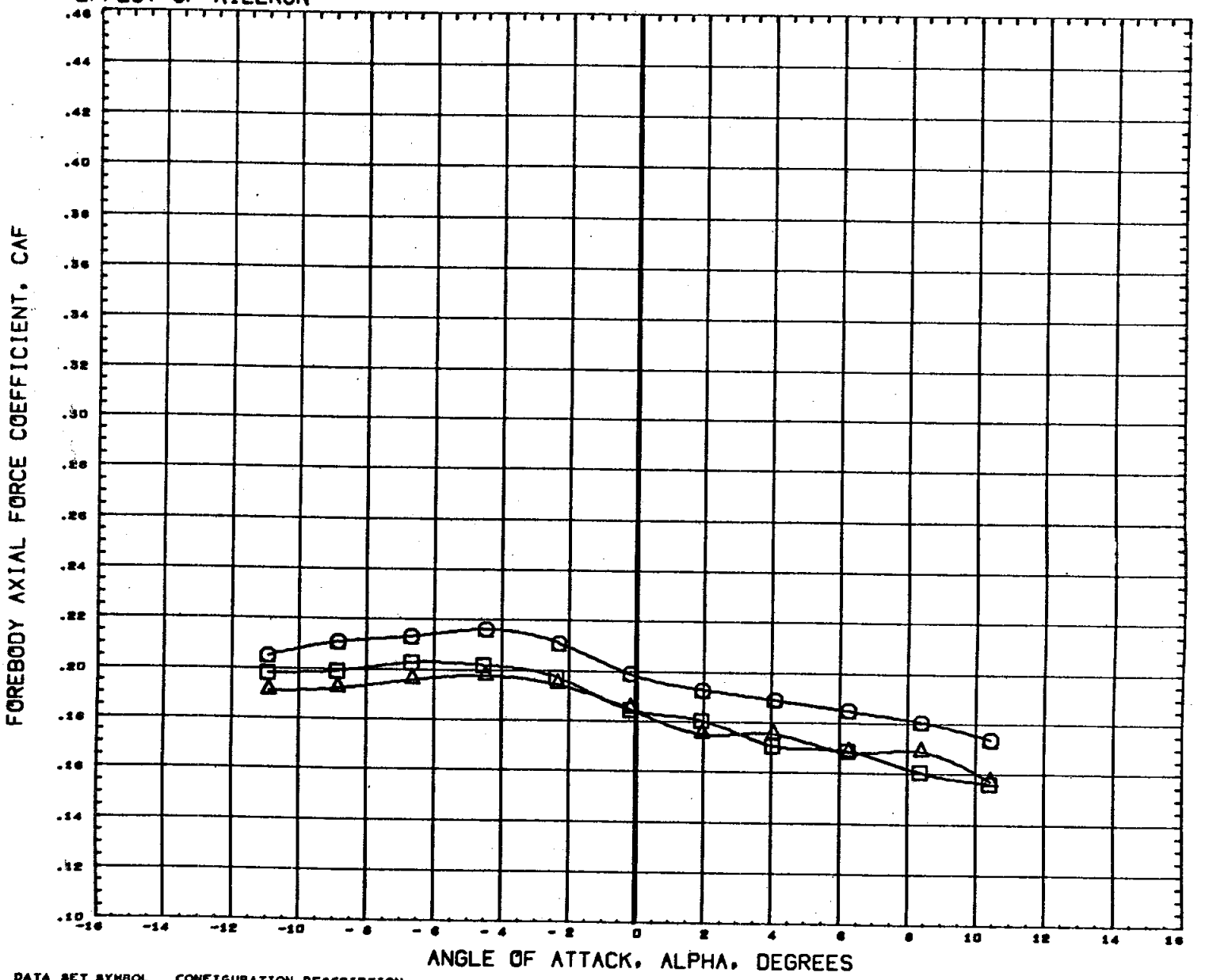
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



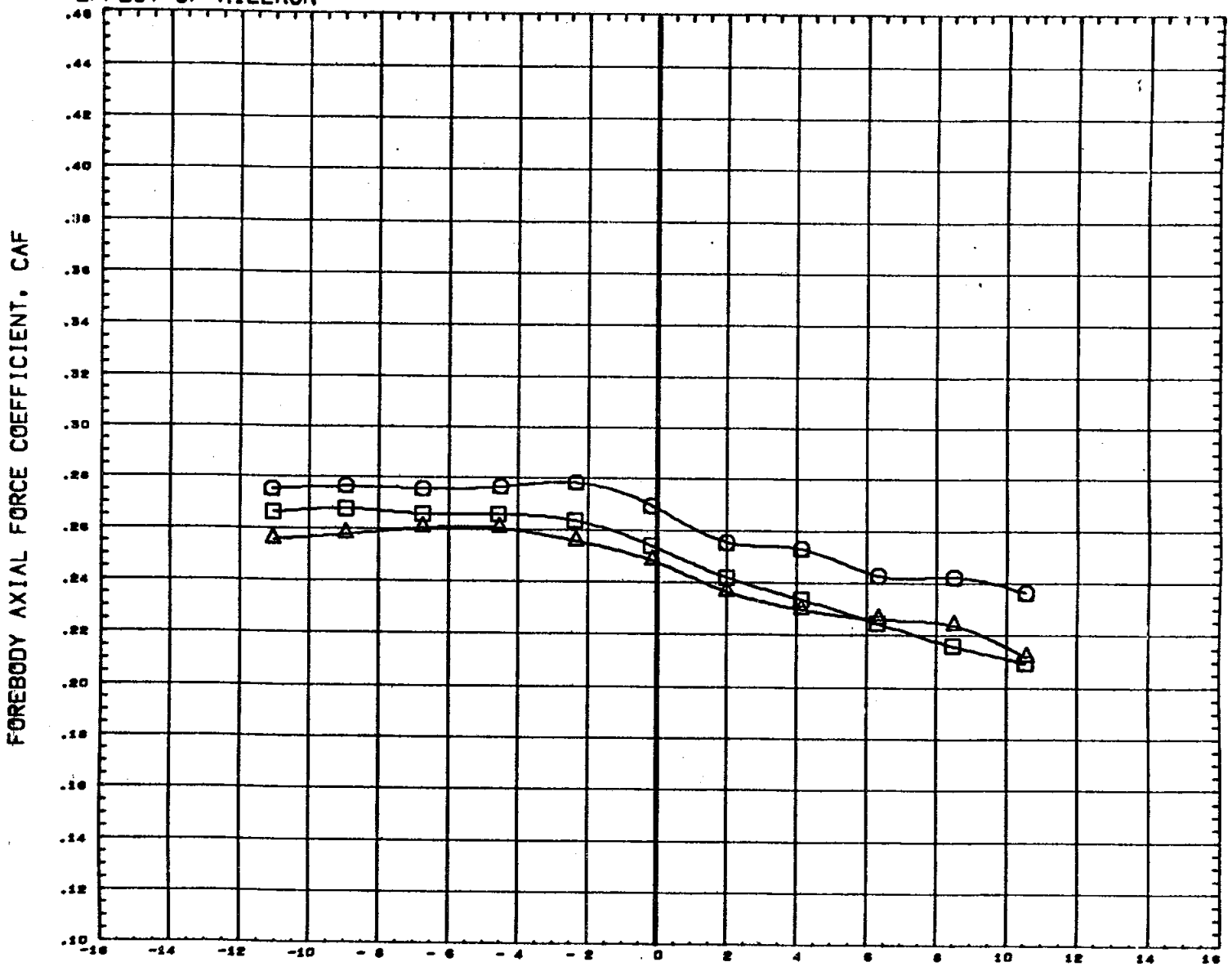
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



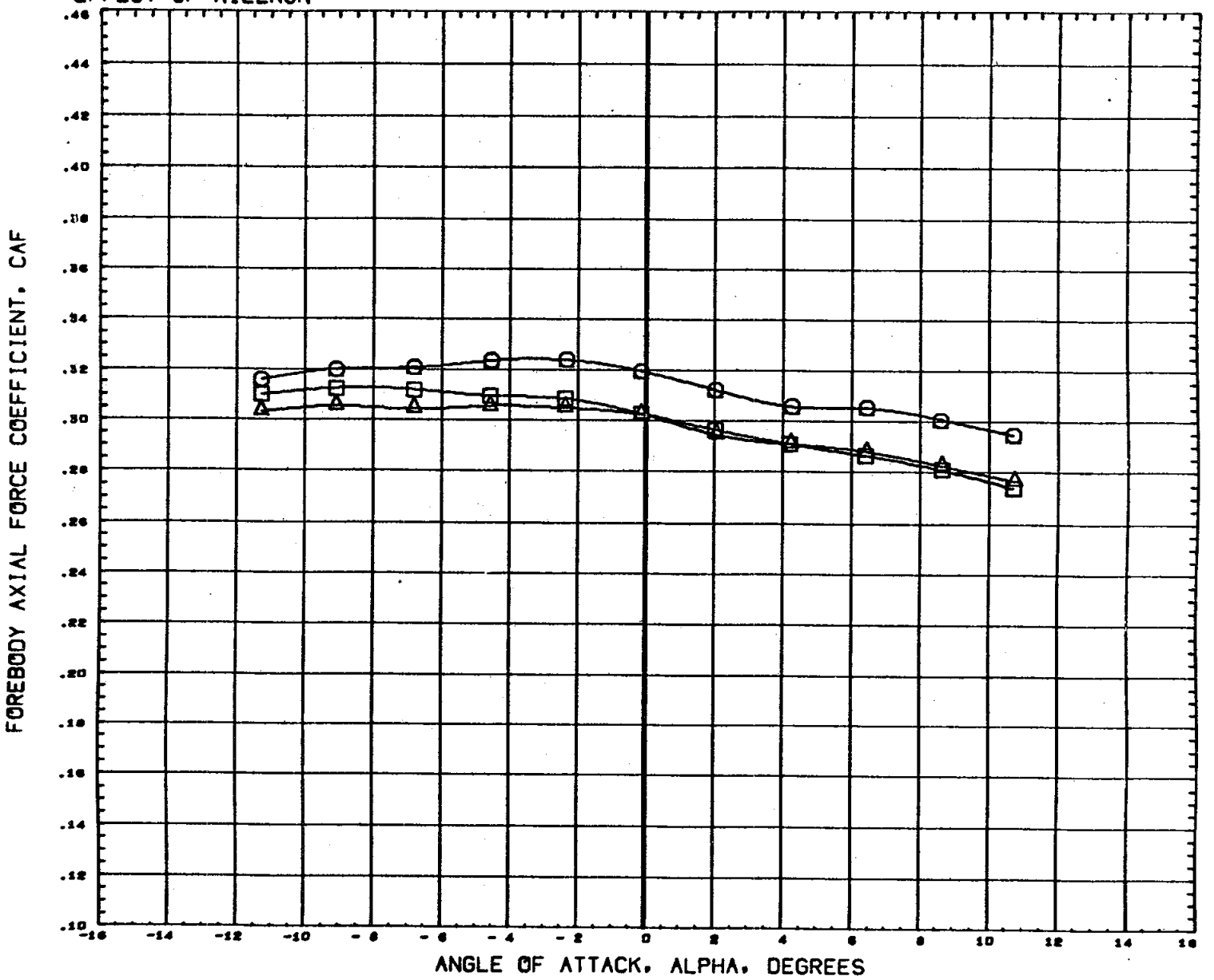
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
90.000	0.000	0.000	10.000
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	10.000
90.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



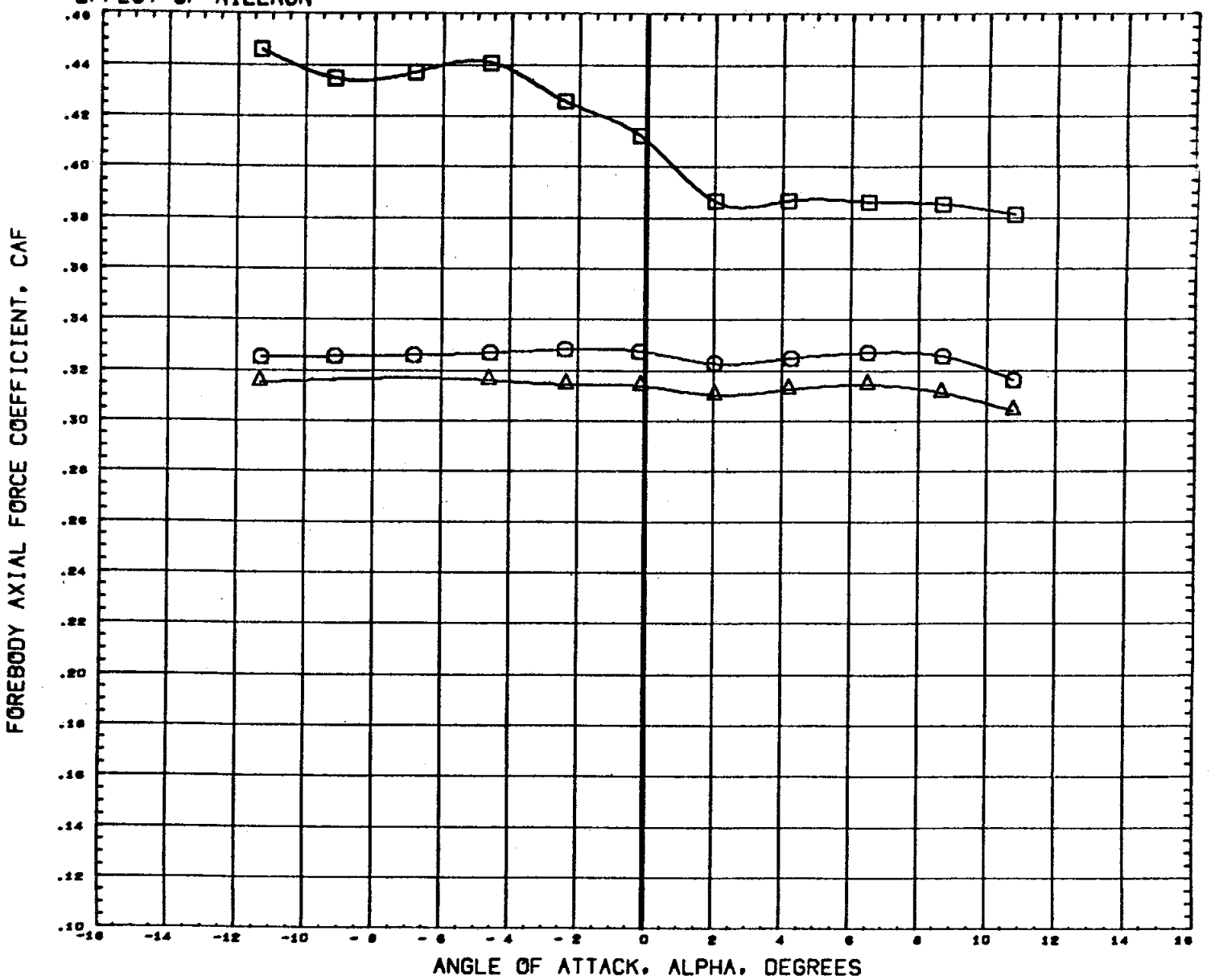
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
90.000	0.000	0.000	10.000
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	10.000
90.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON

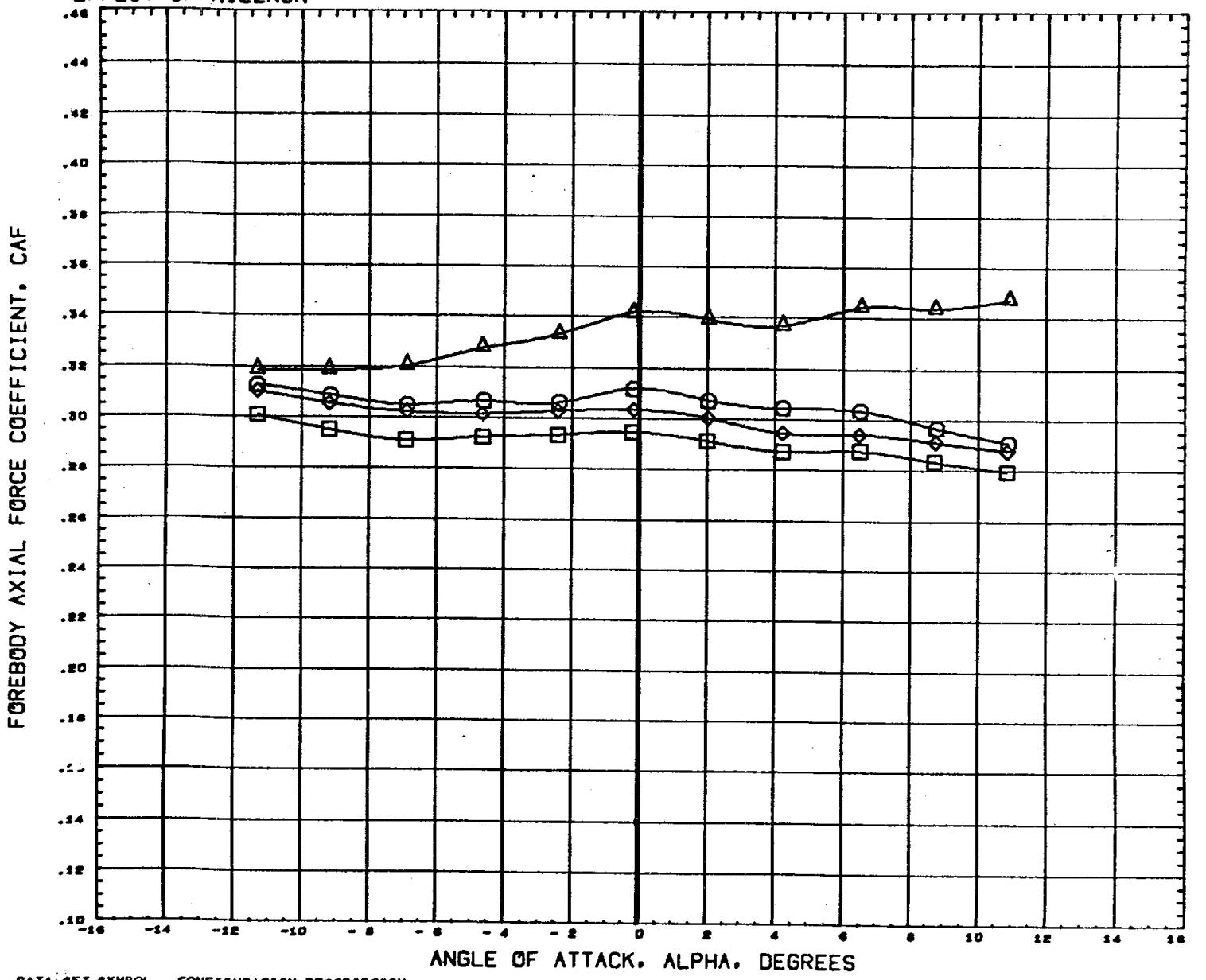


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON



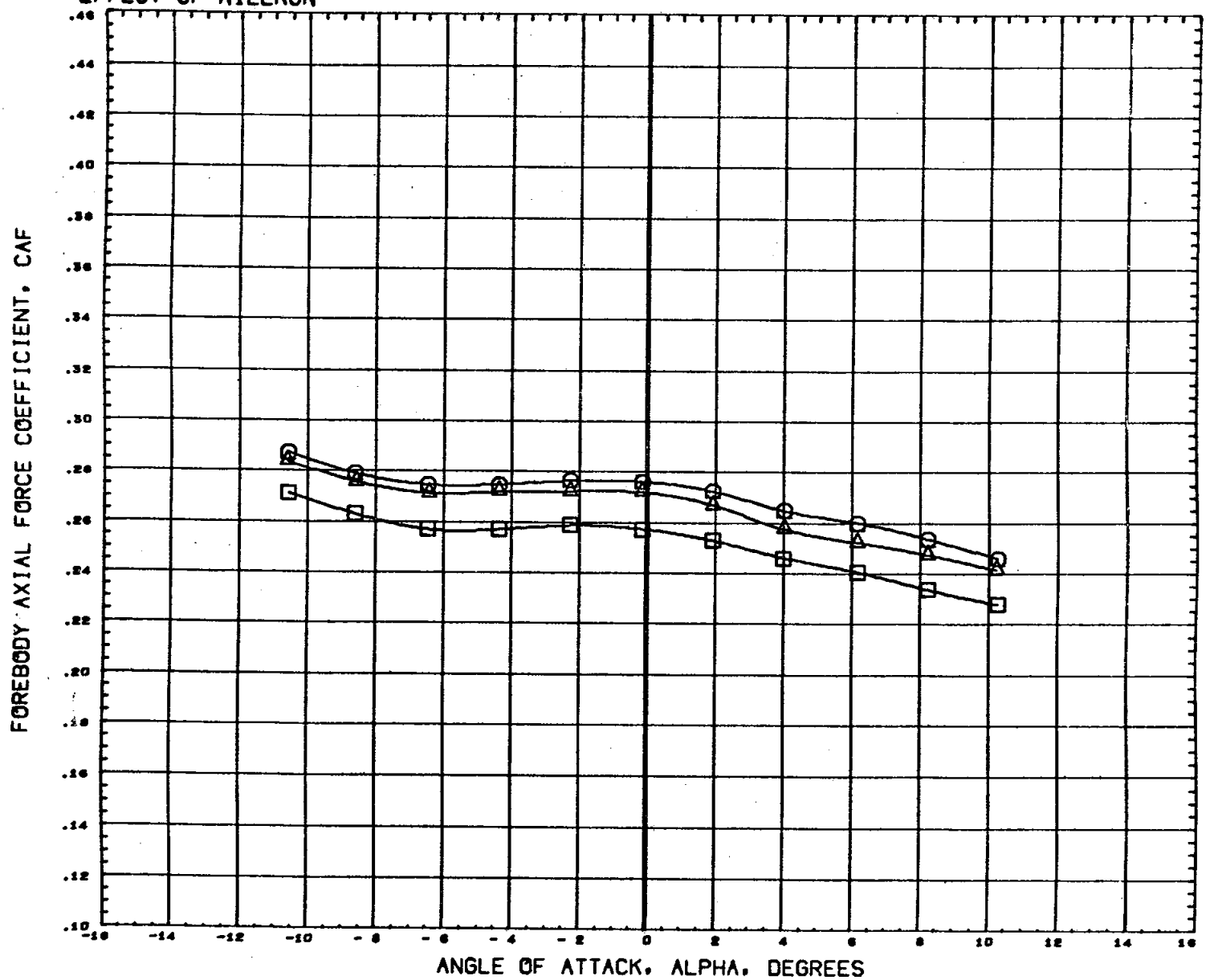
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



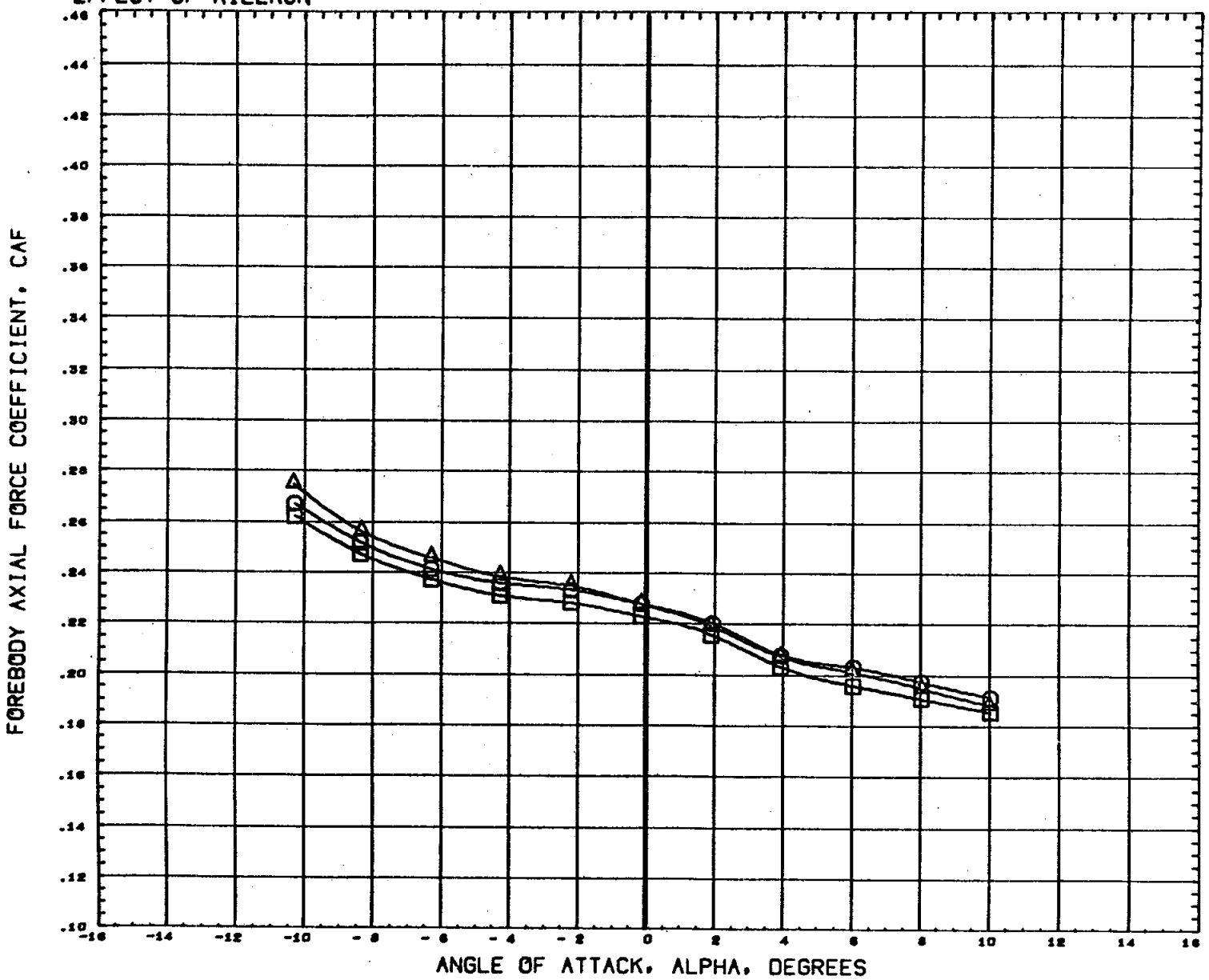
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



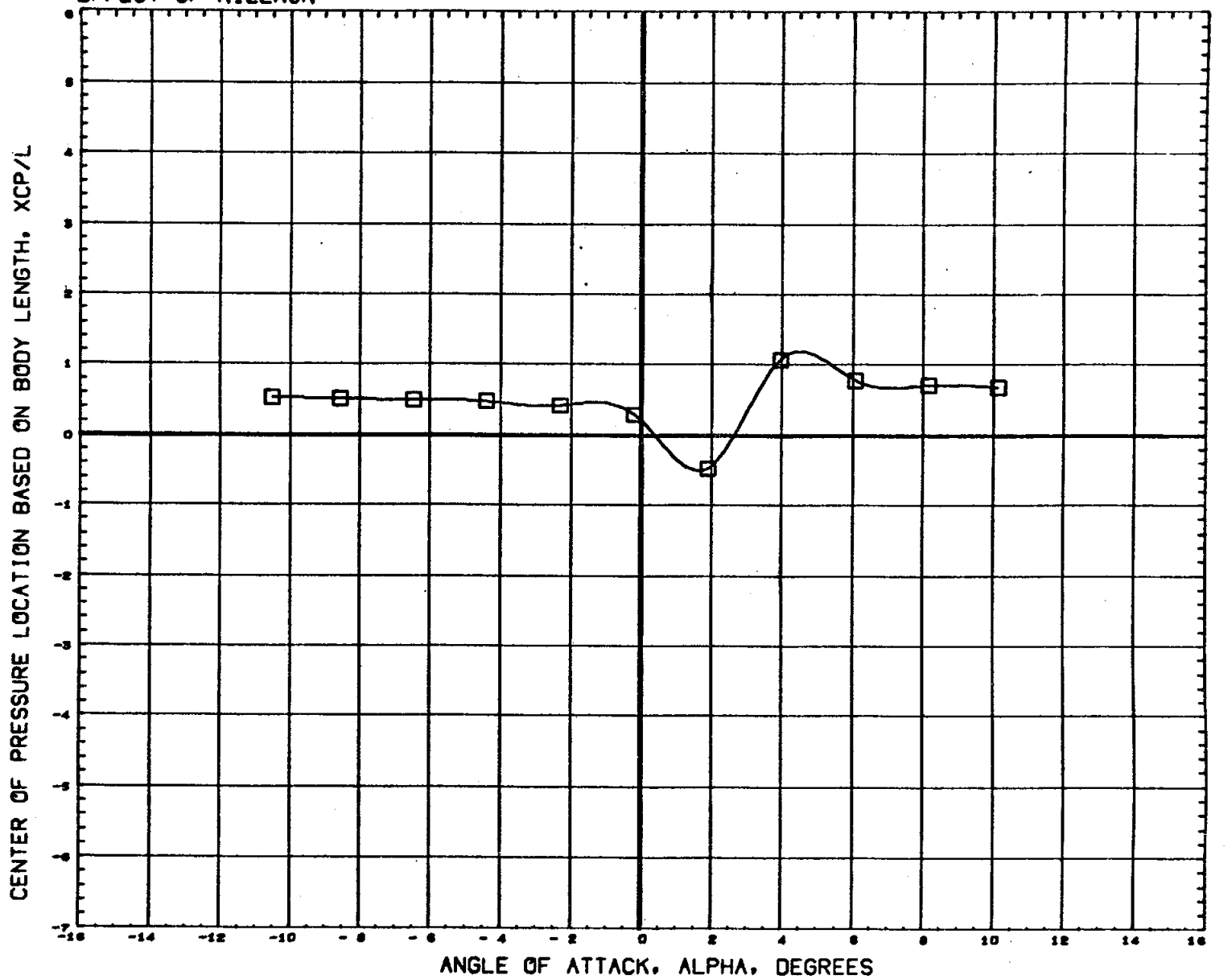
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77054)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON



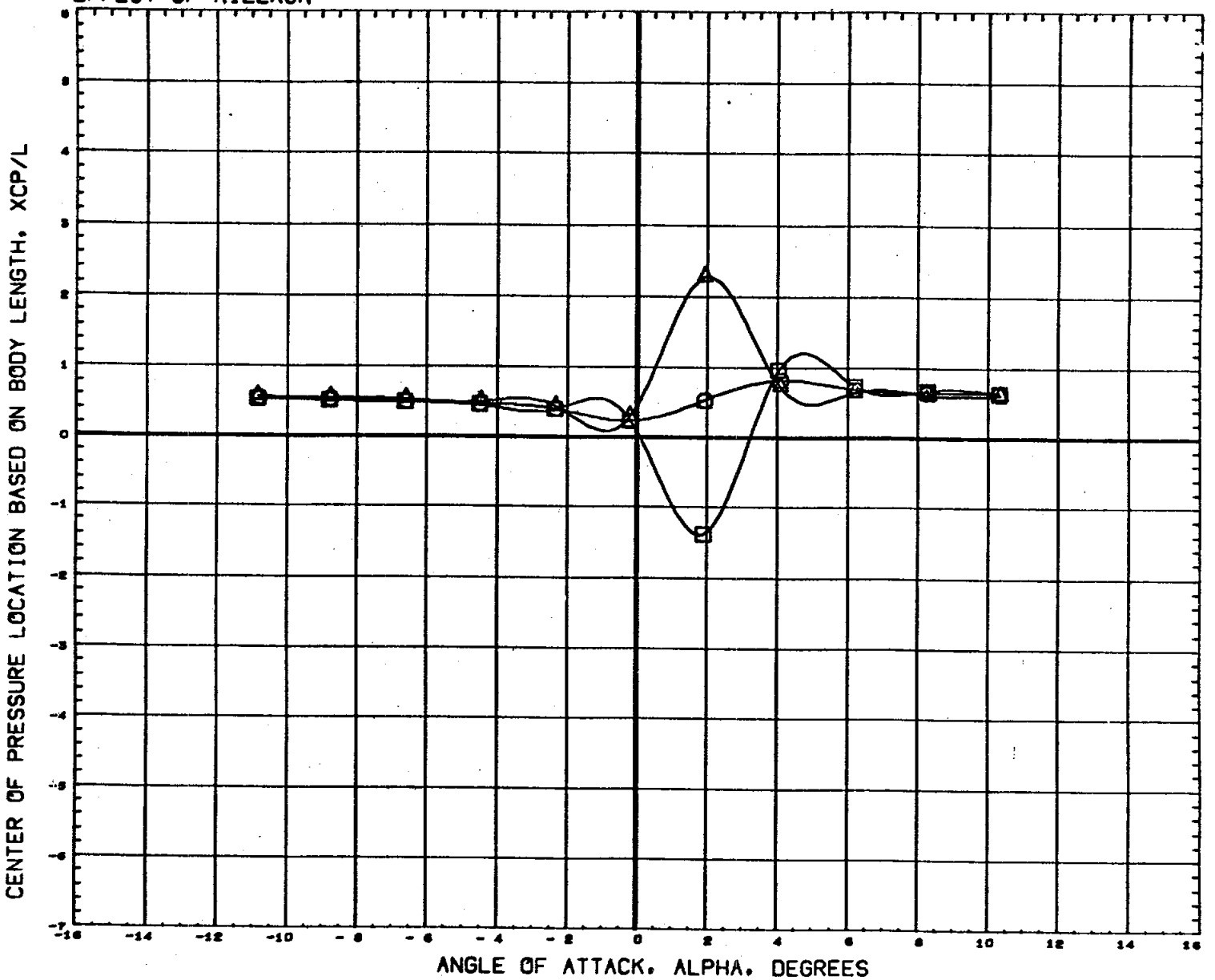
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

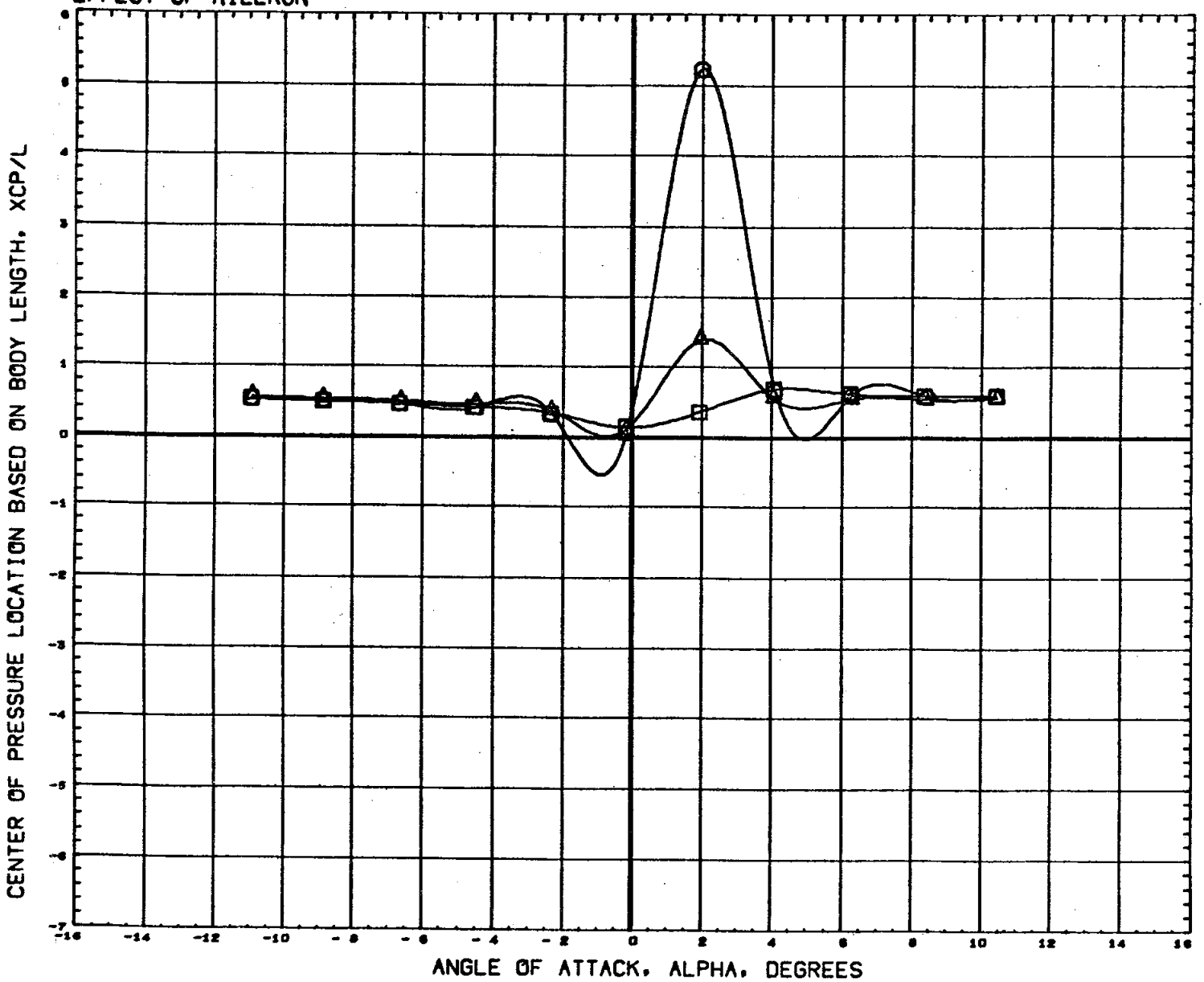
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



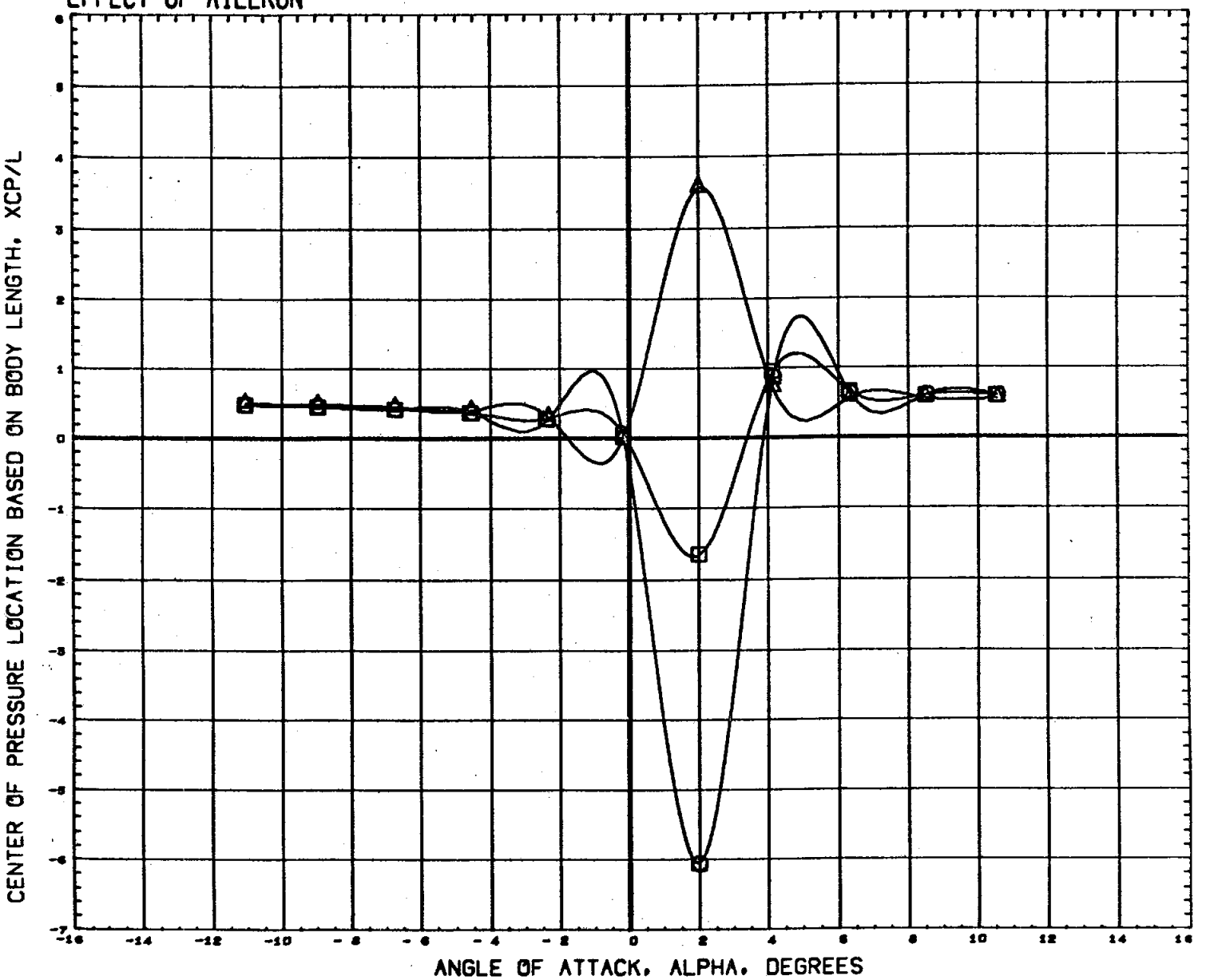
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	▽	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON

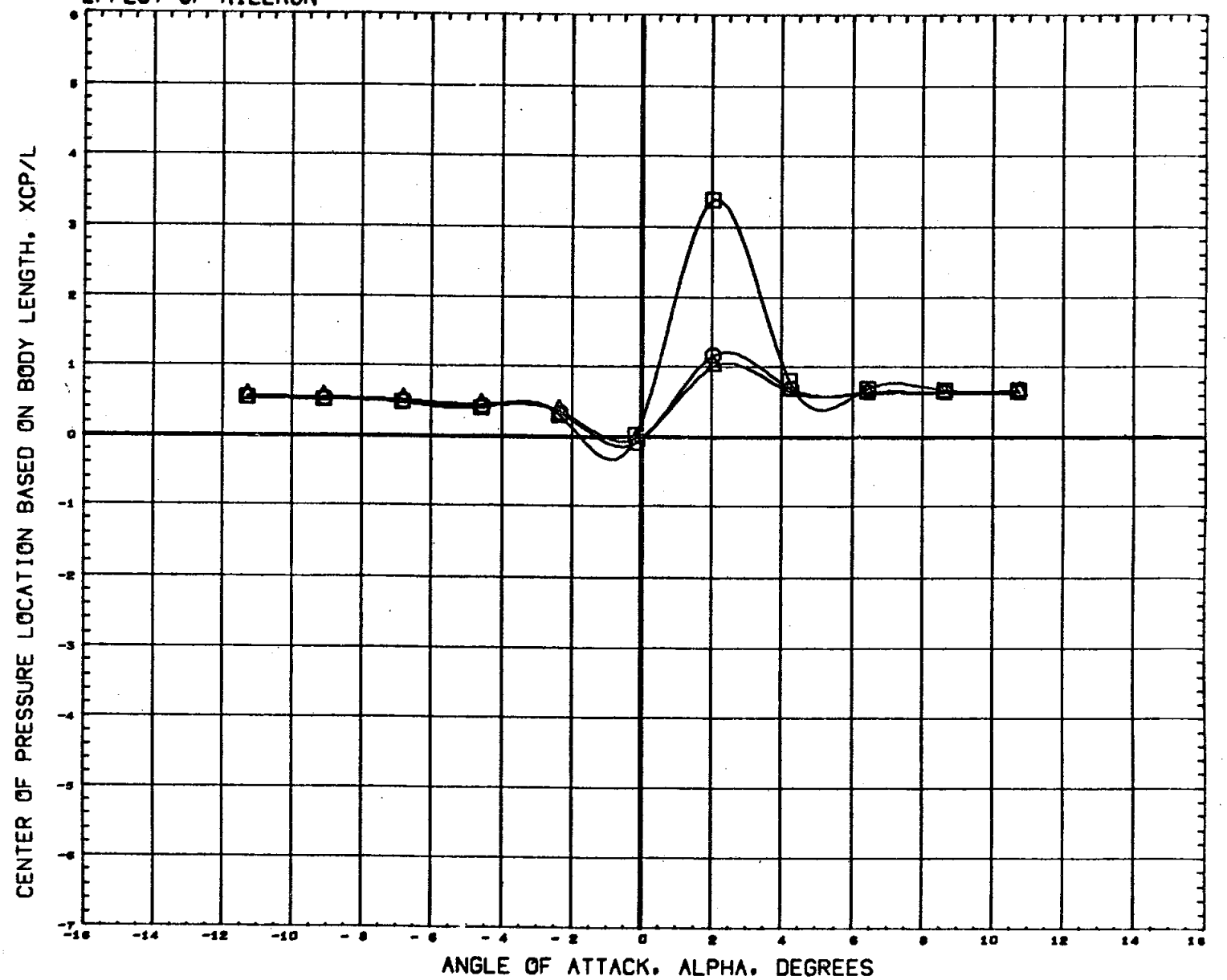


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(C77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77034)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



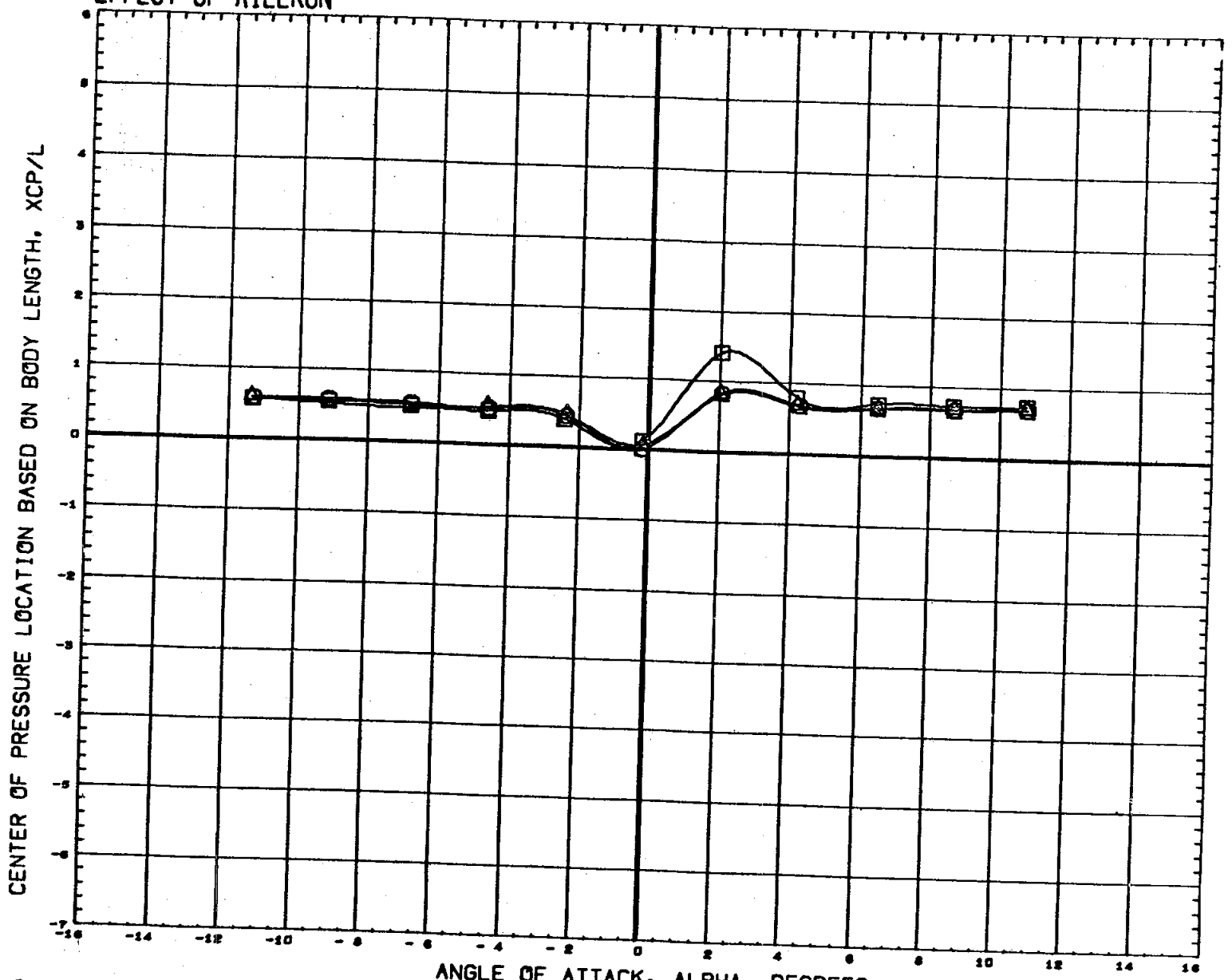
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

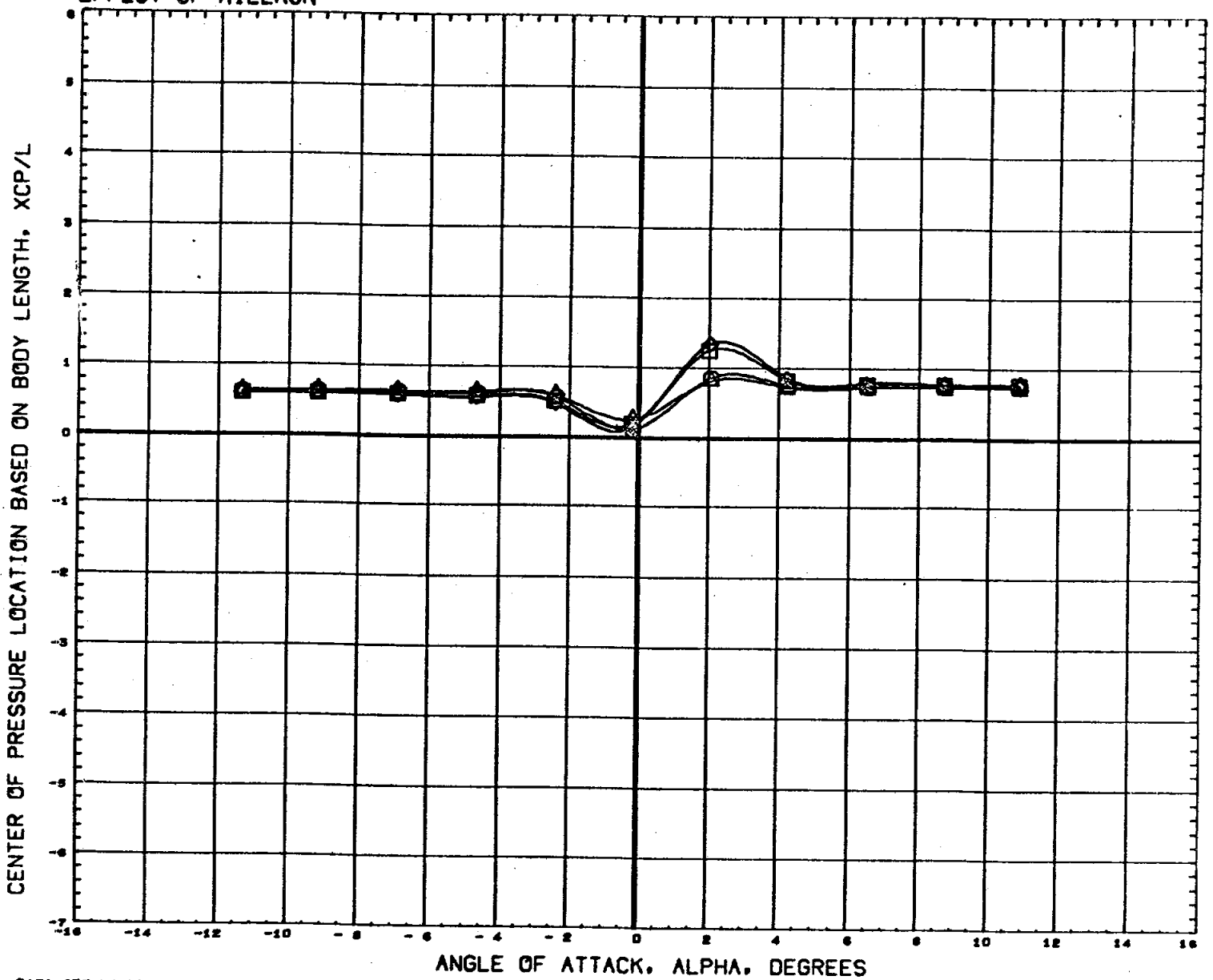
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON



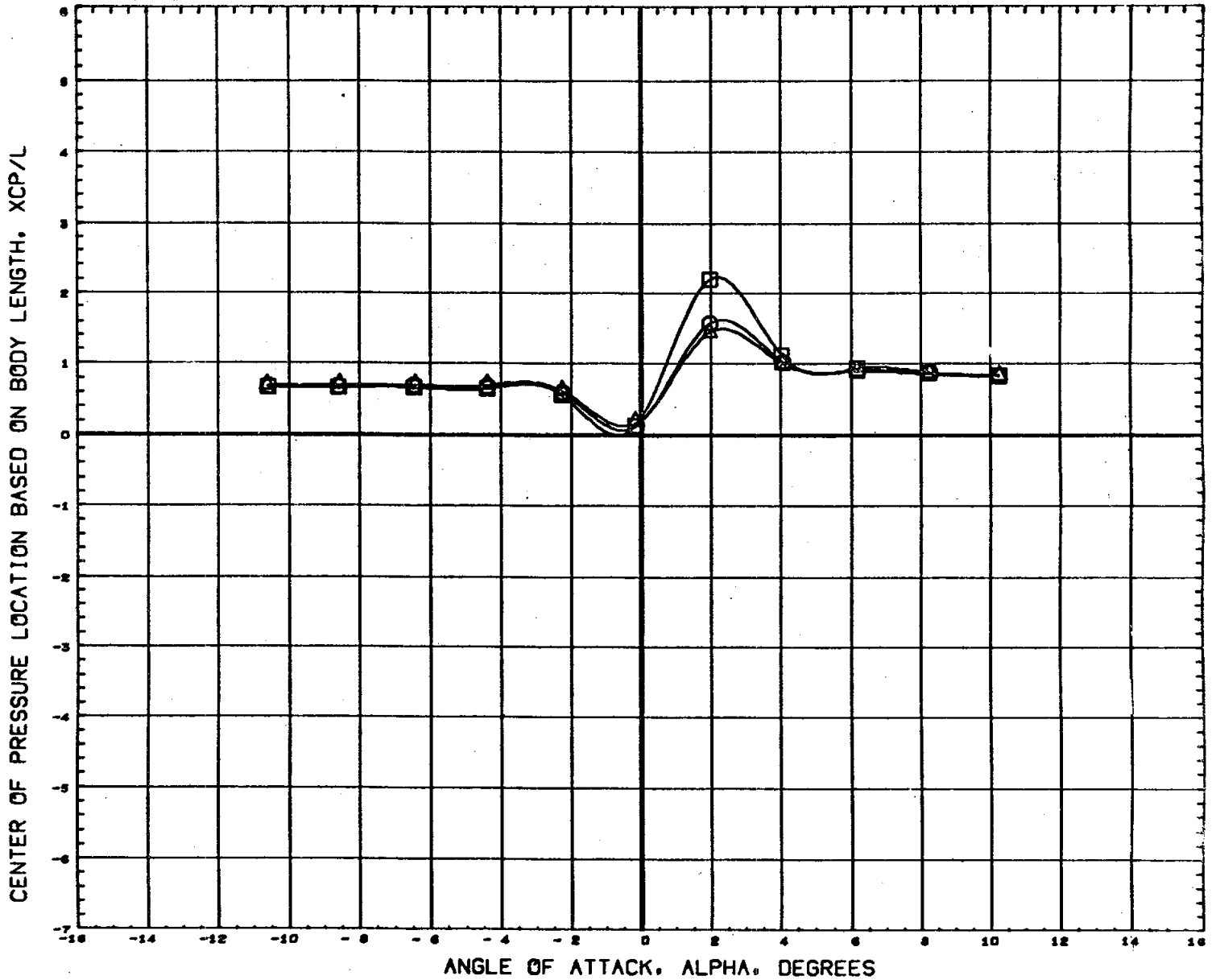
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77054)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



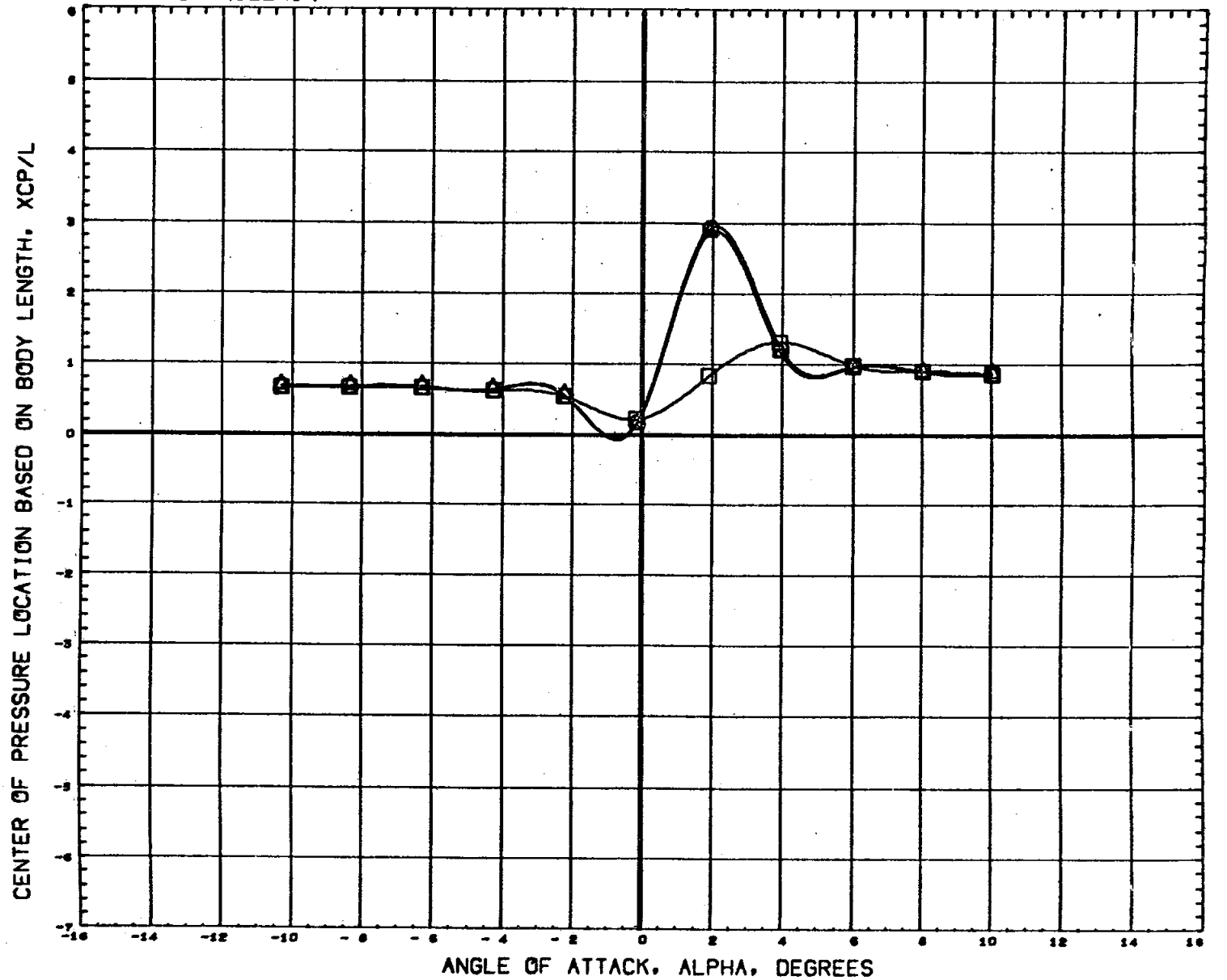
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



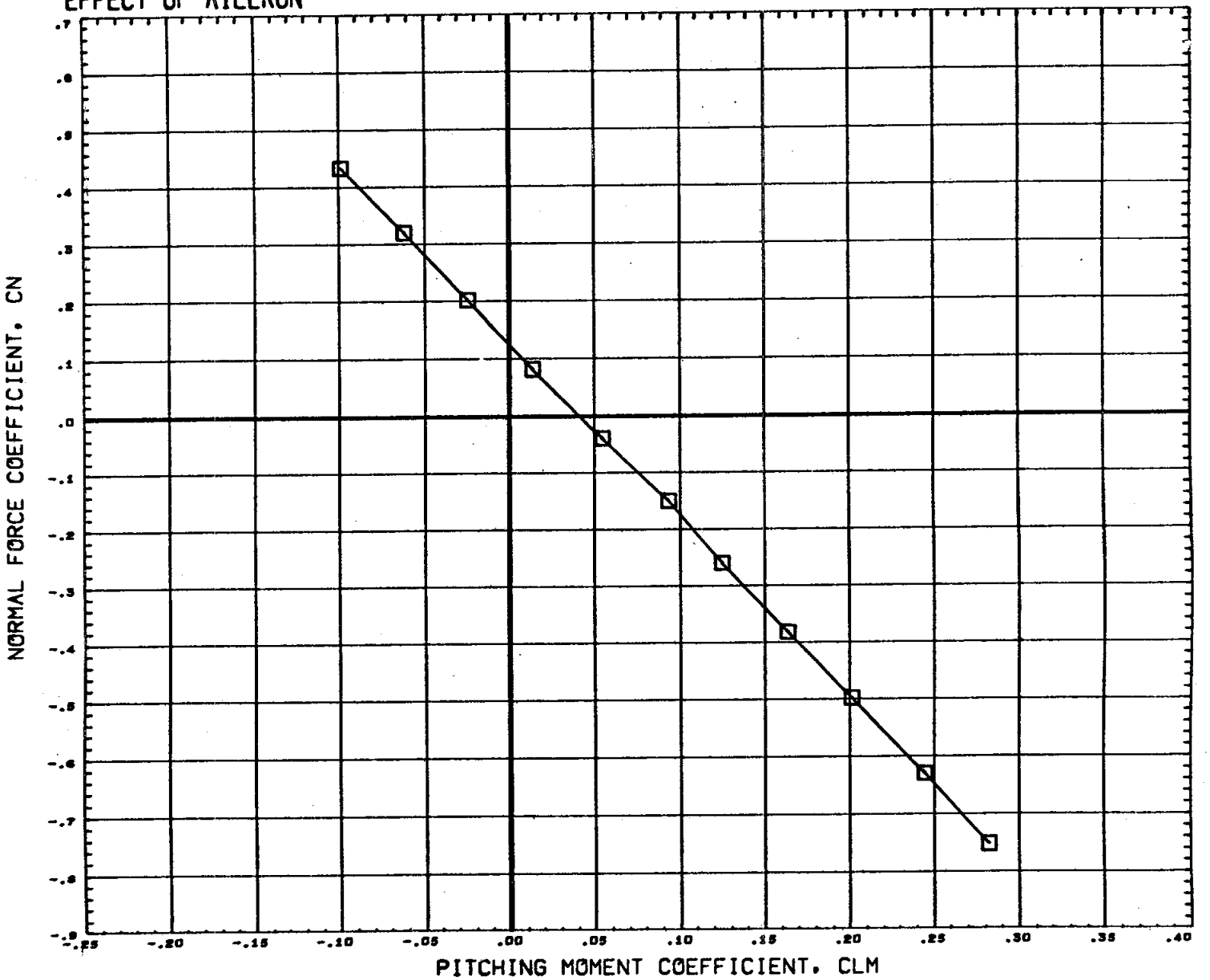
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
90.000	0.000	0.000	10.000
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	10.000
90.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON



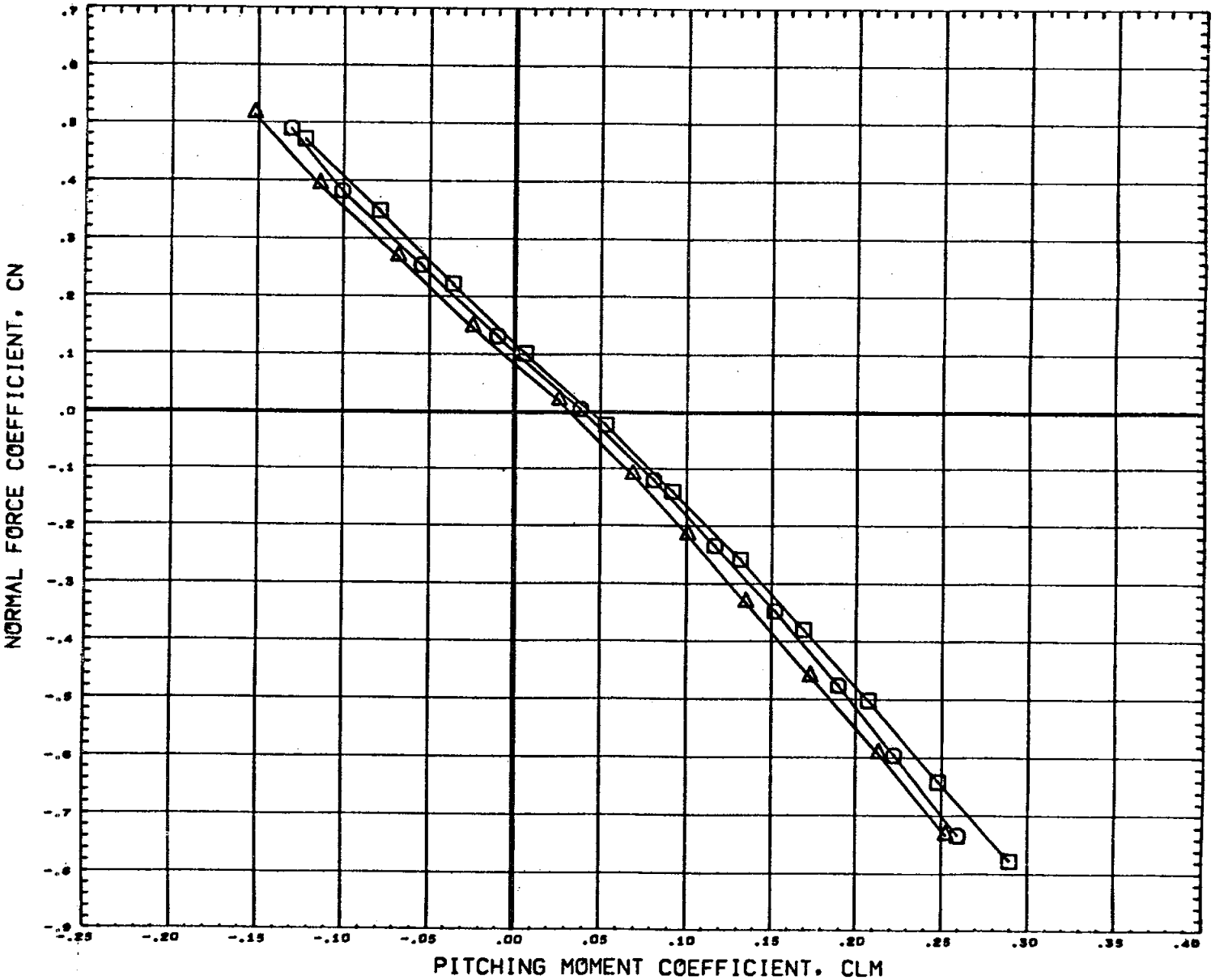
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



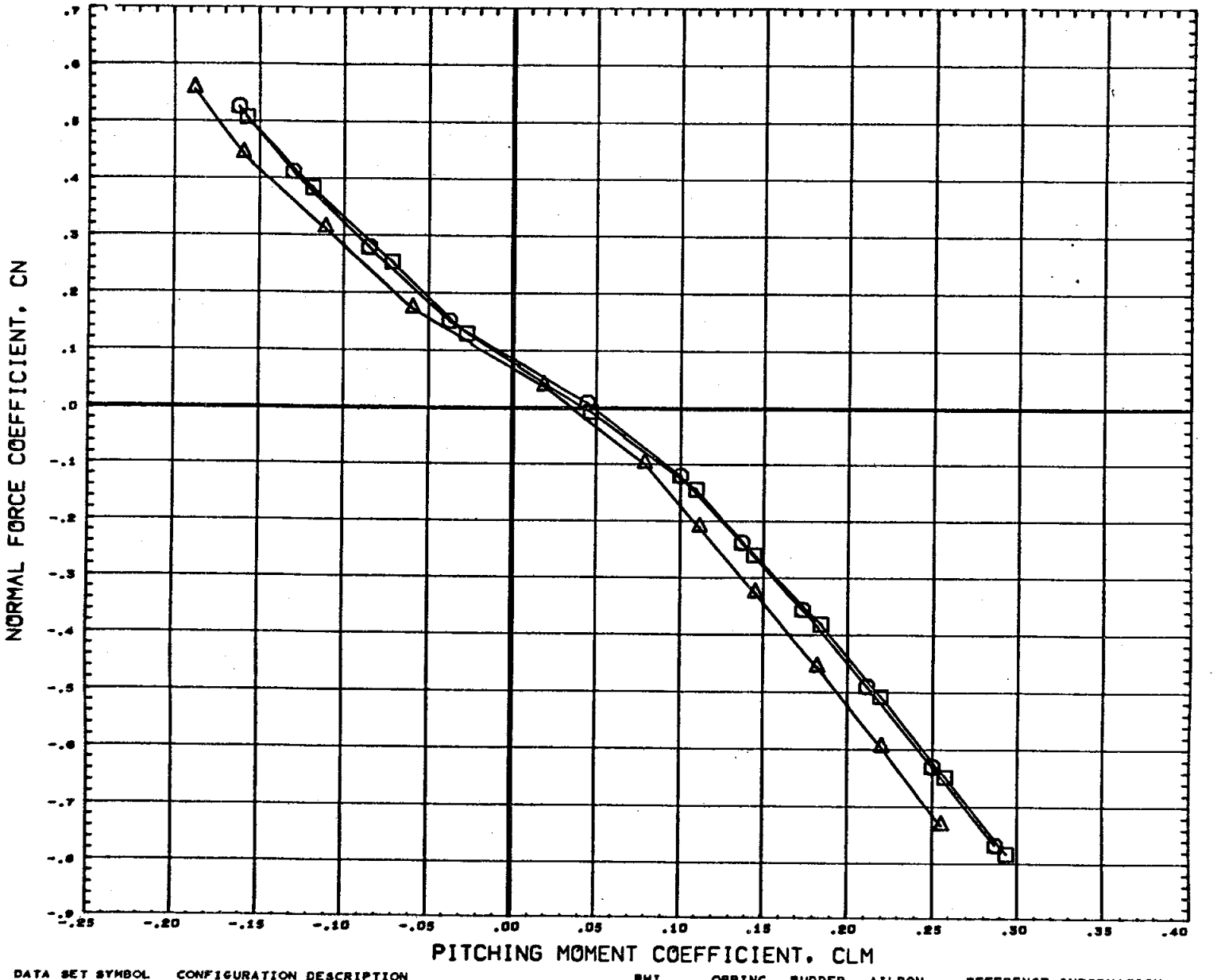
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

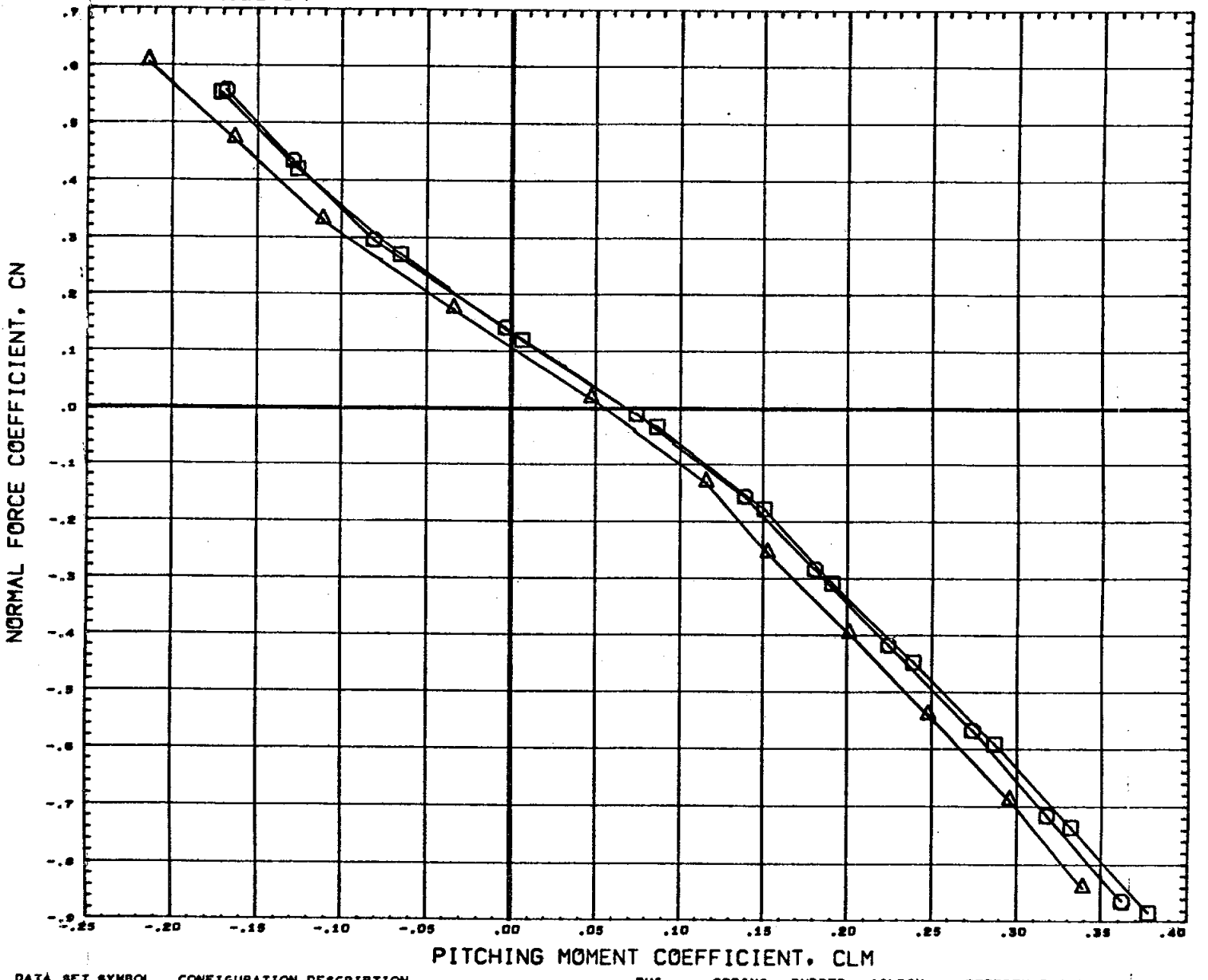
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



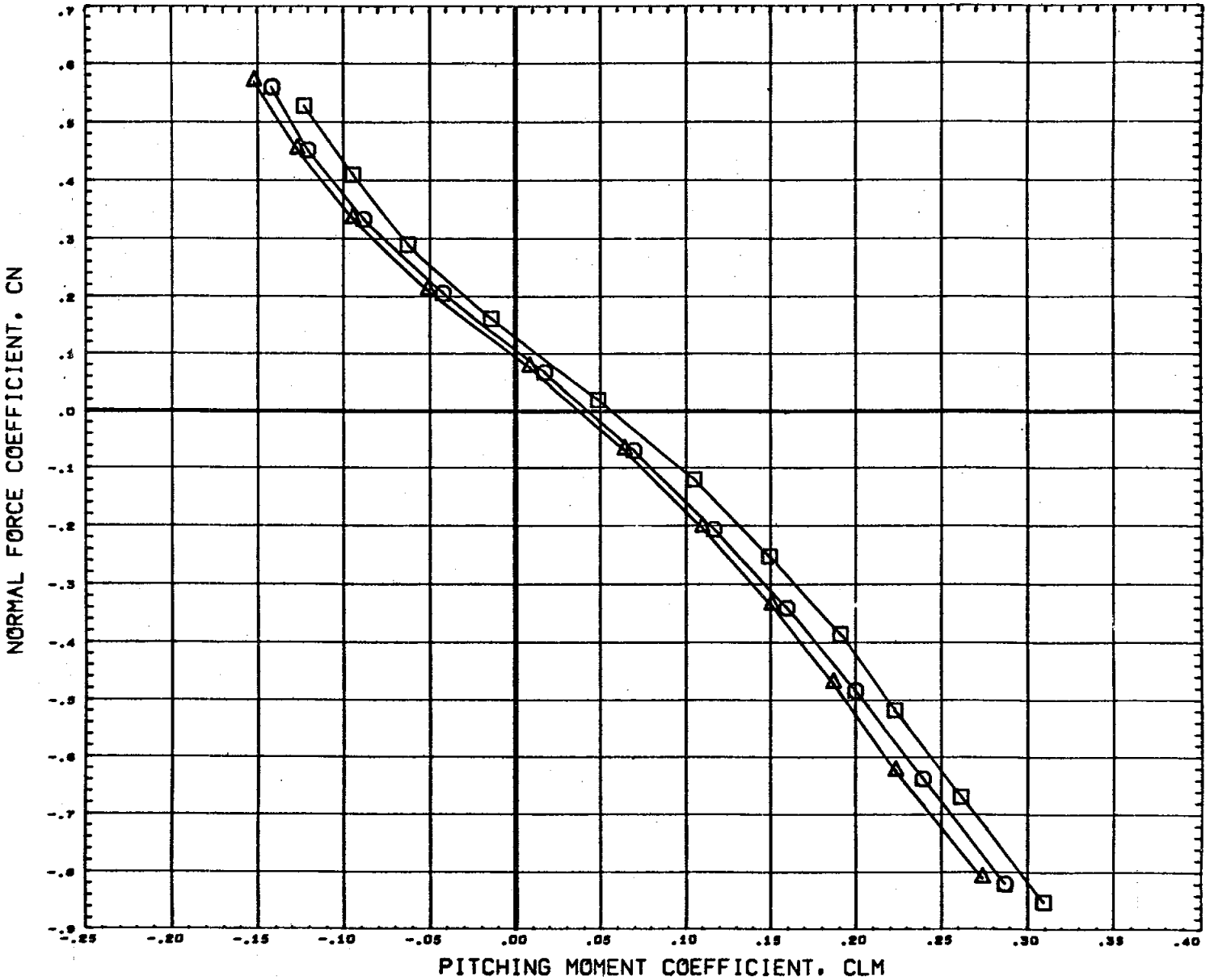
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

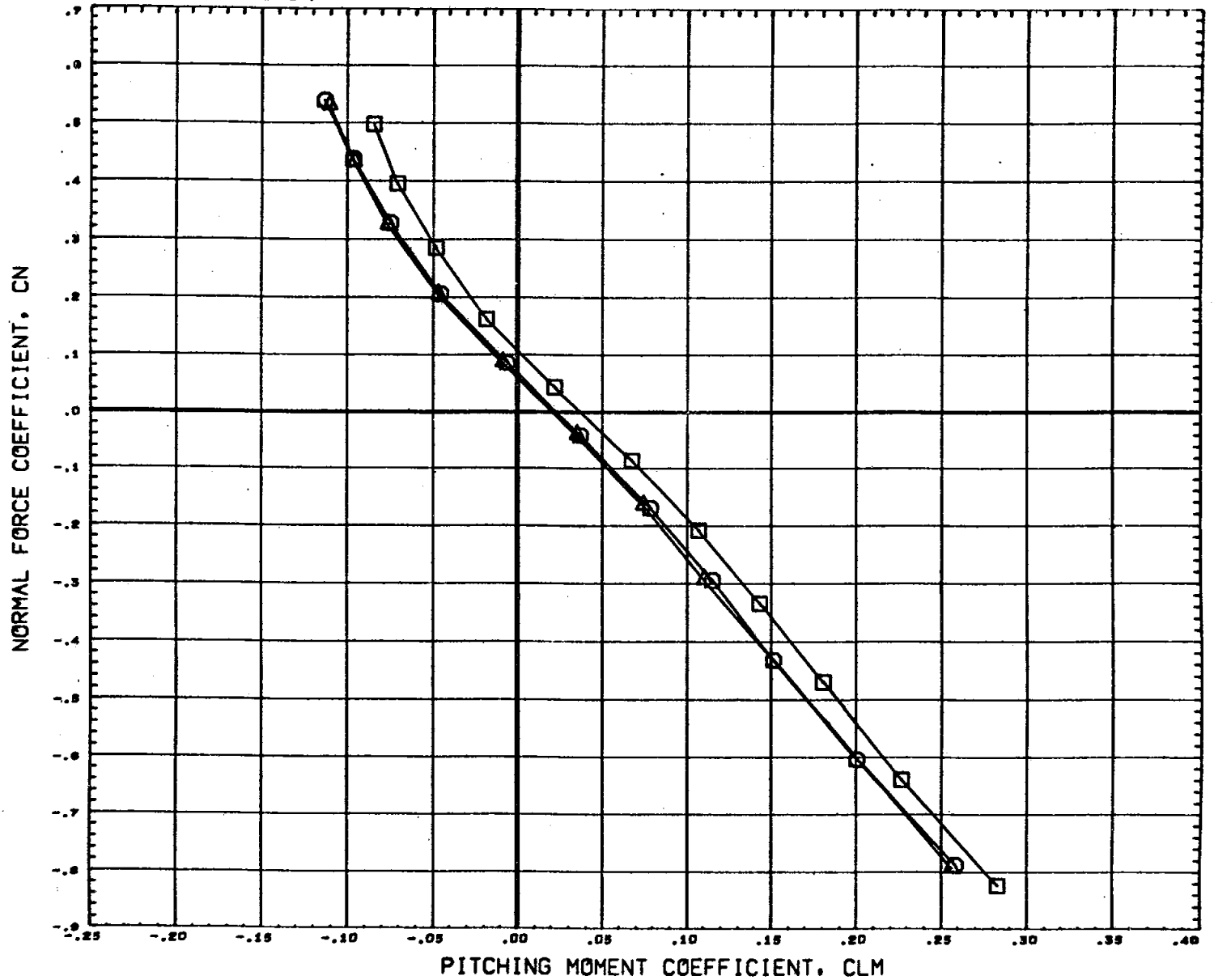


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



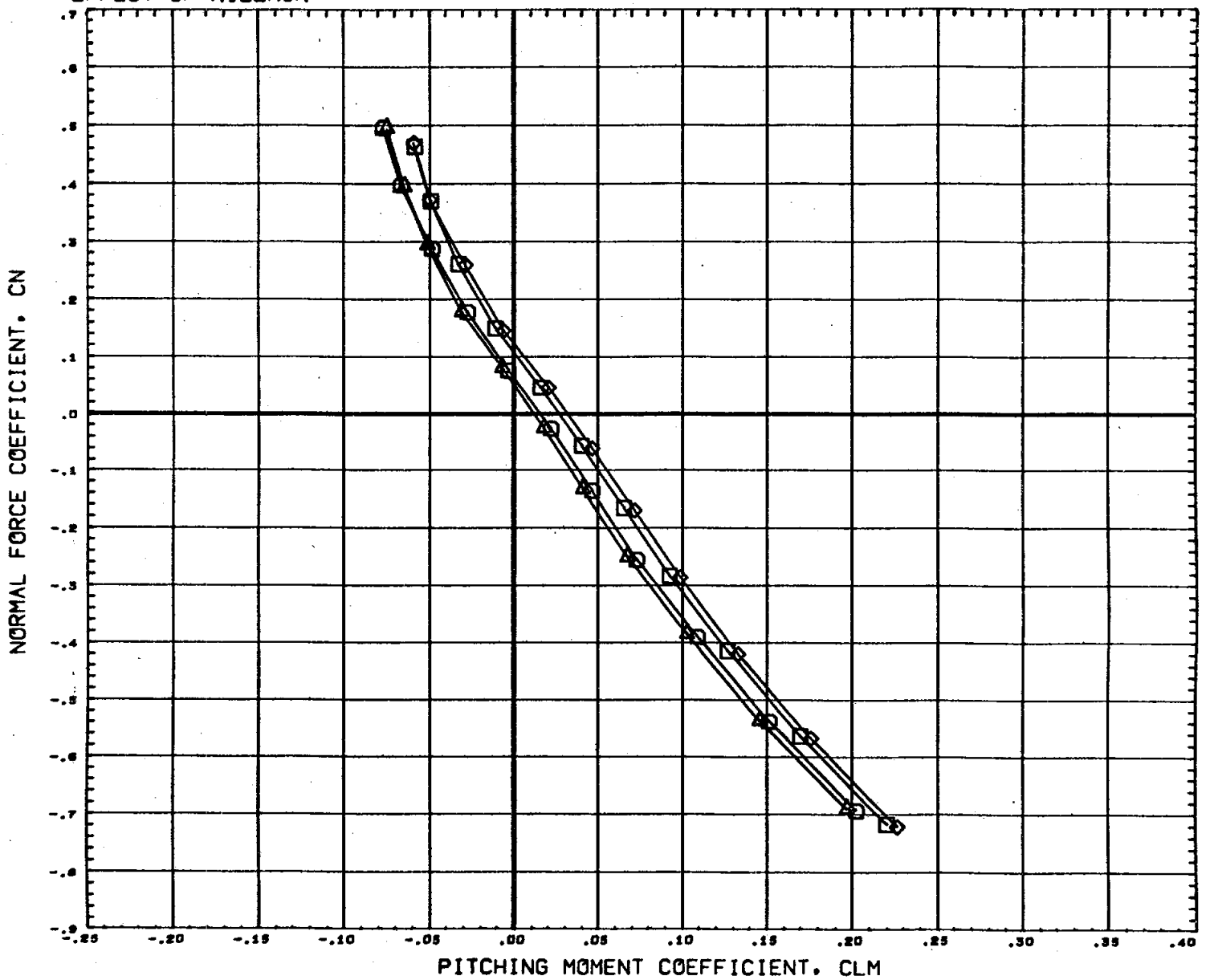
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON

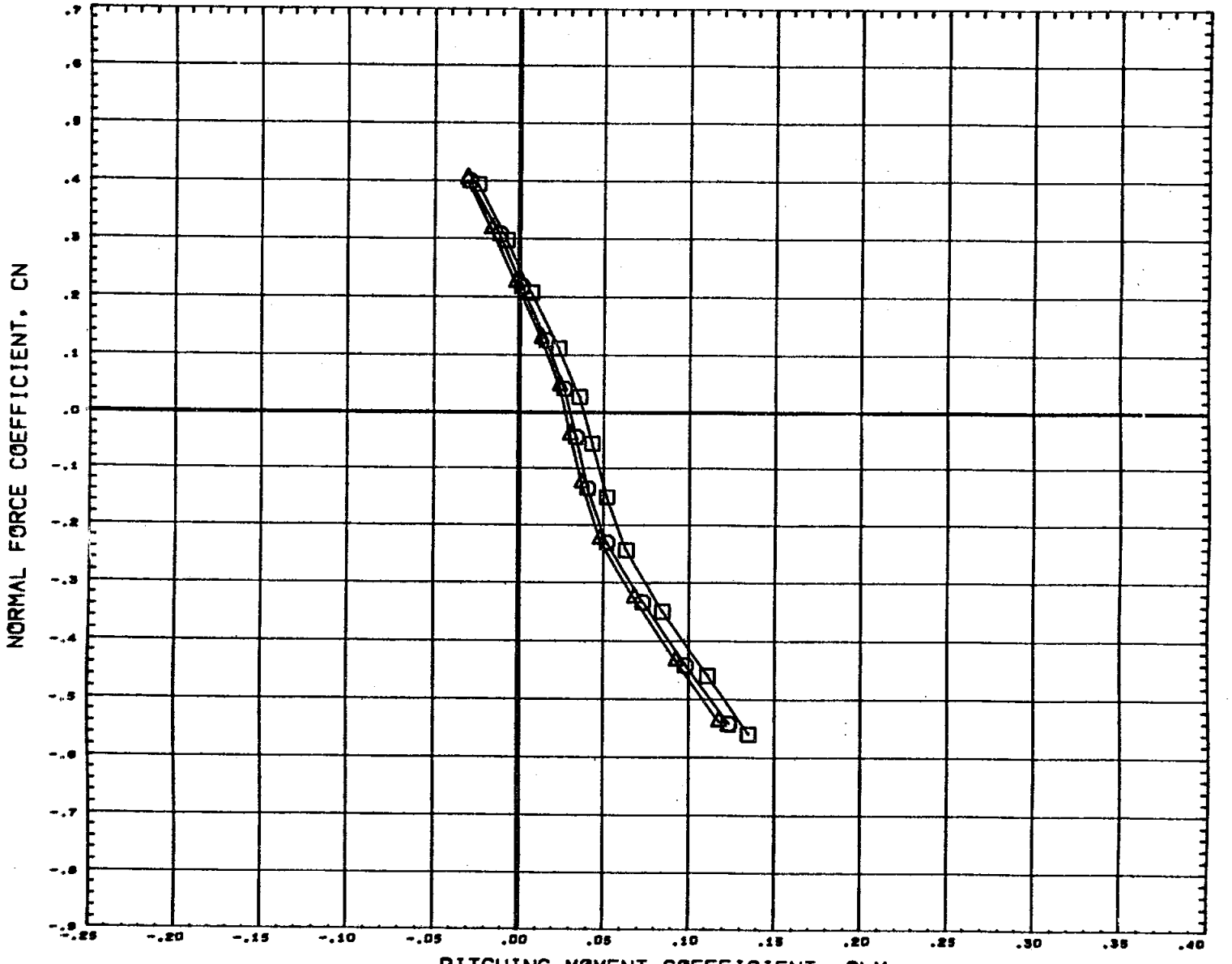


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77034)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



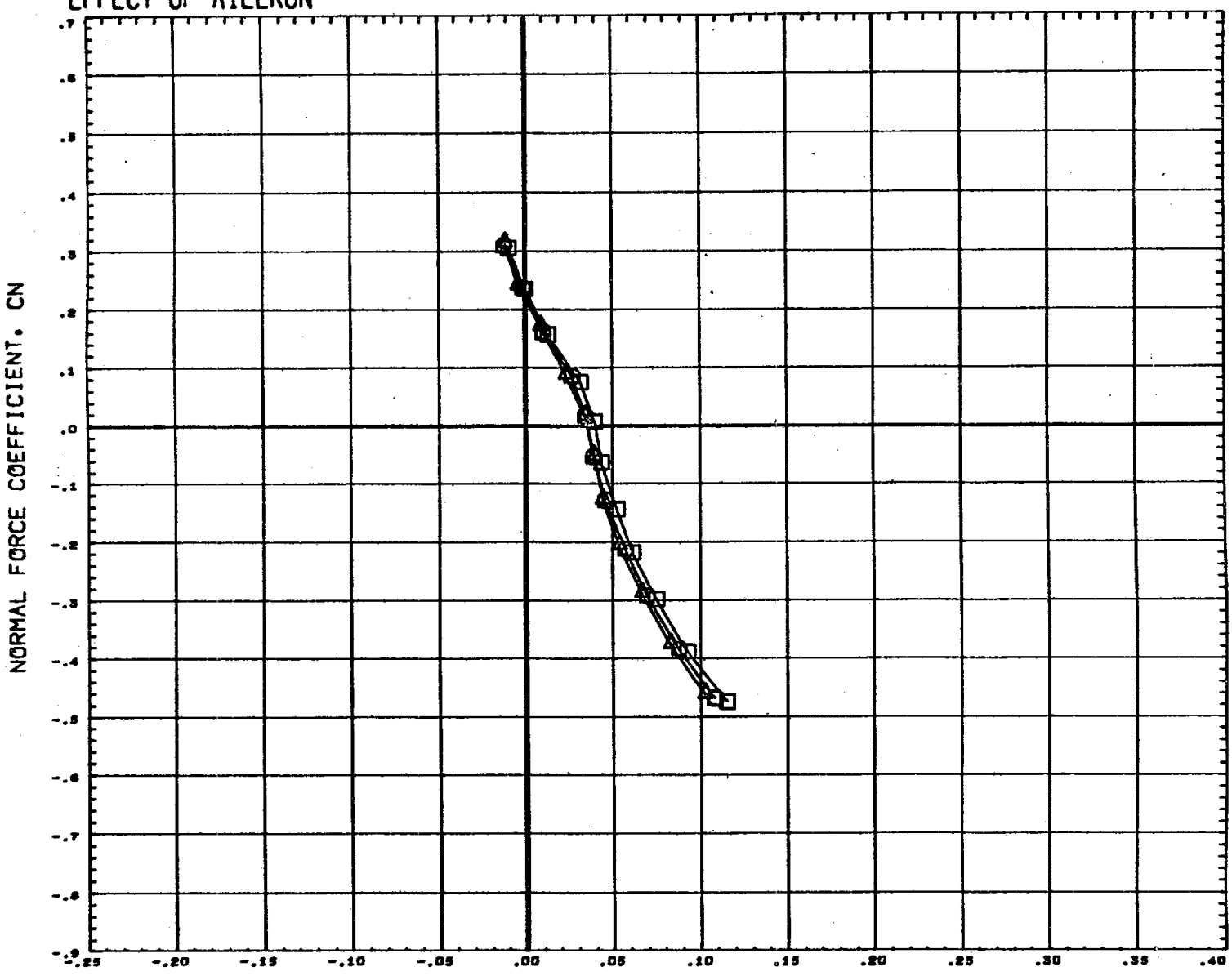
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON

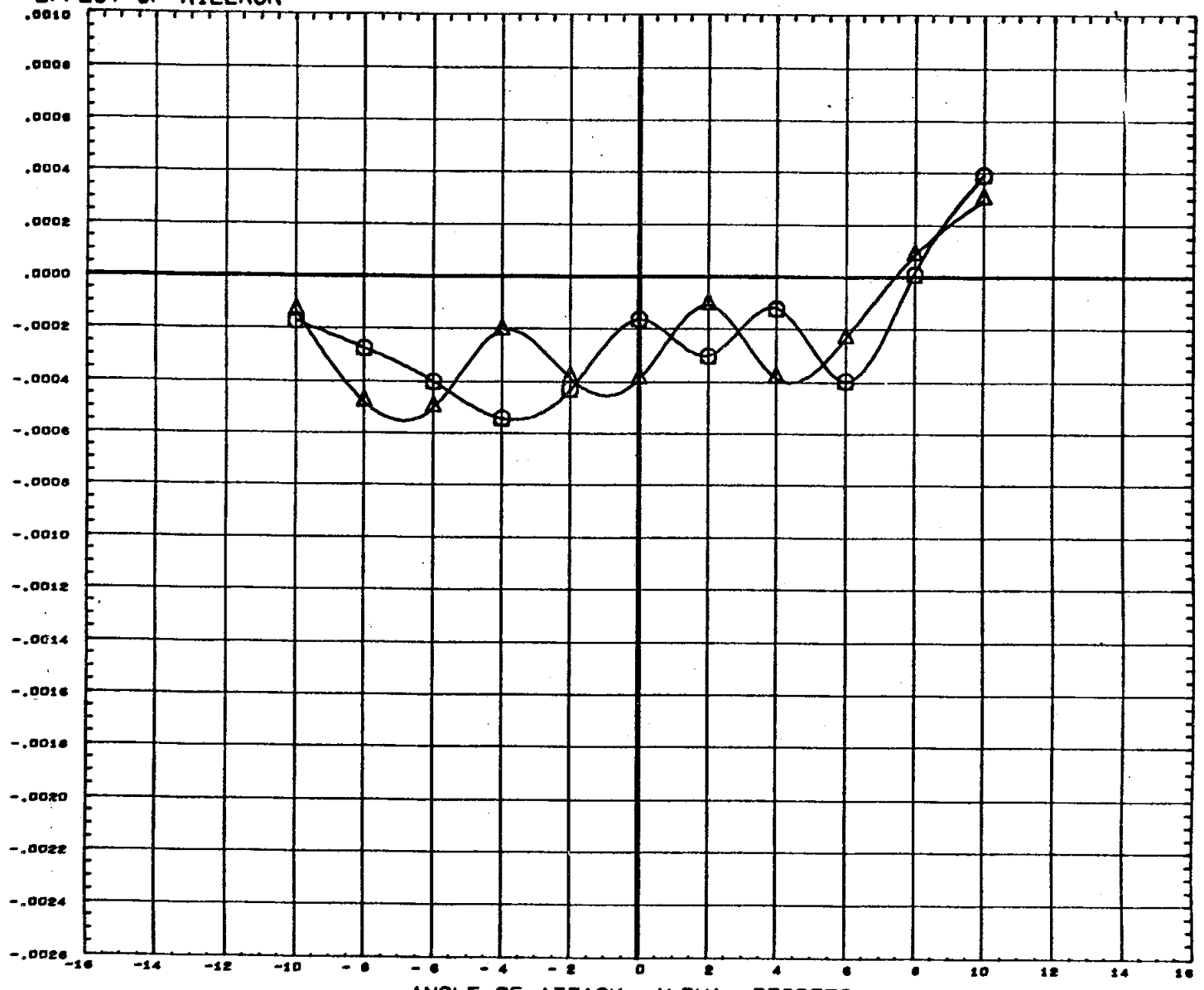


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON

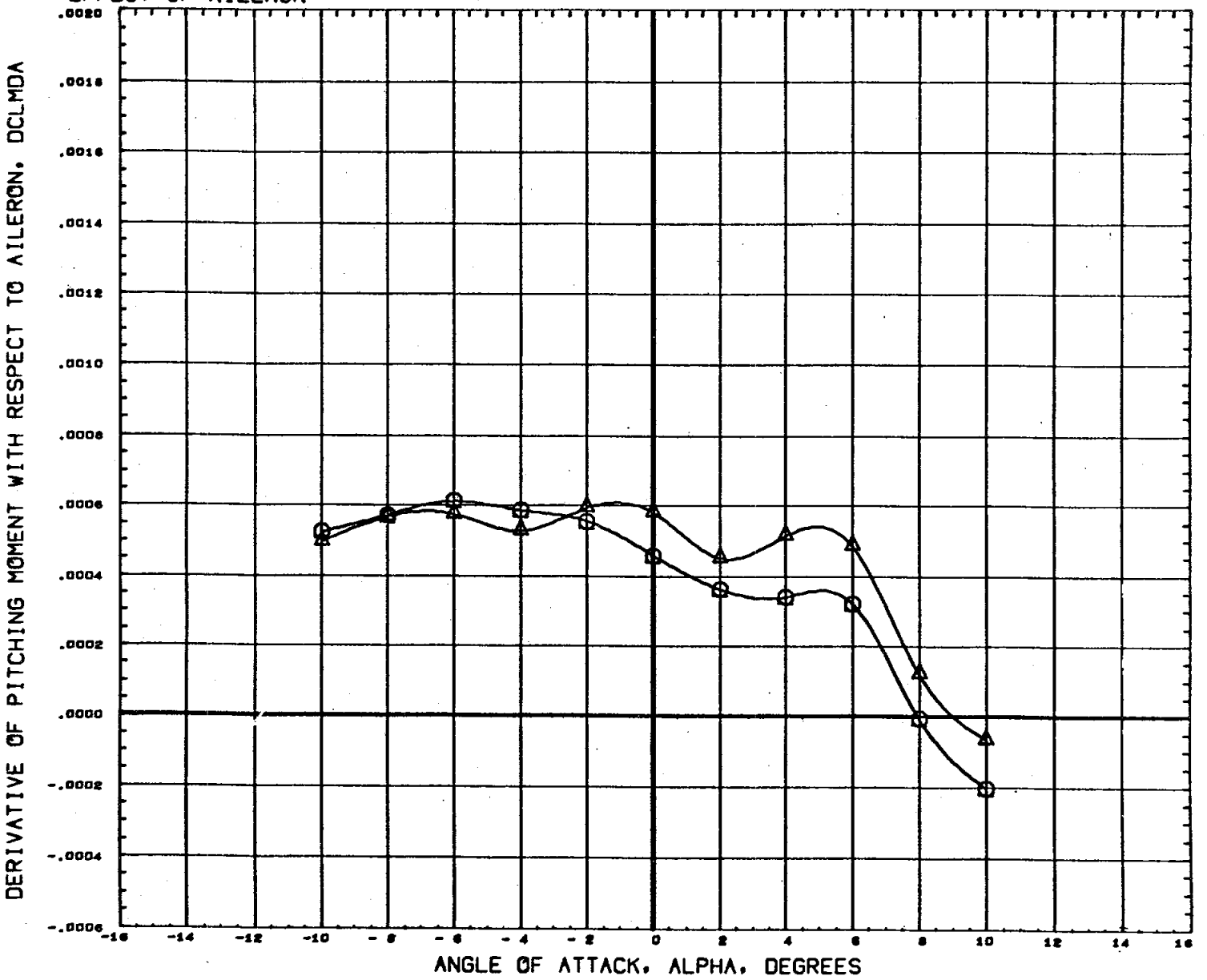


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C24)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(F77C34)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON

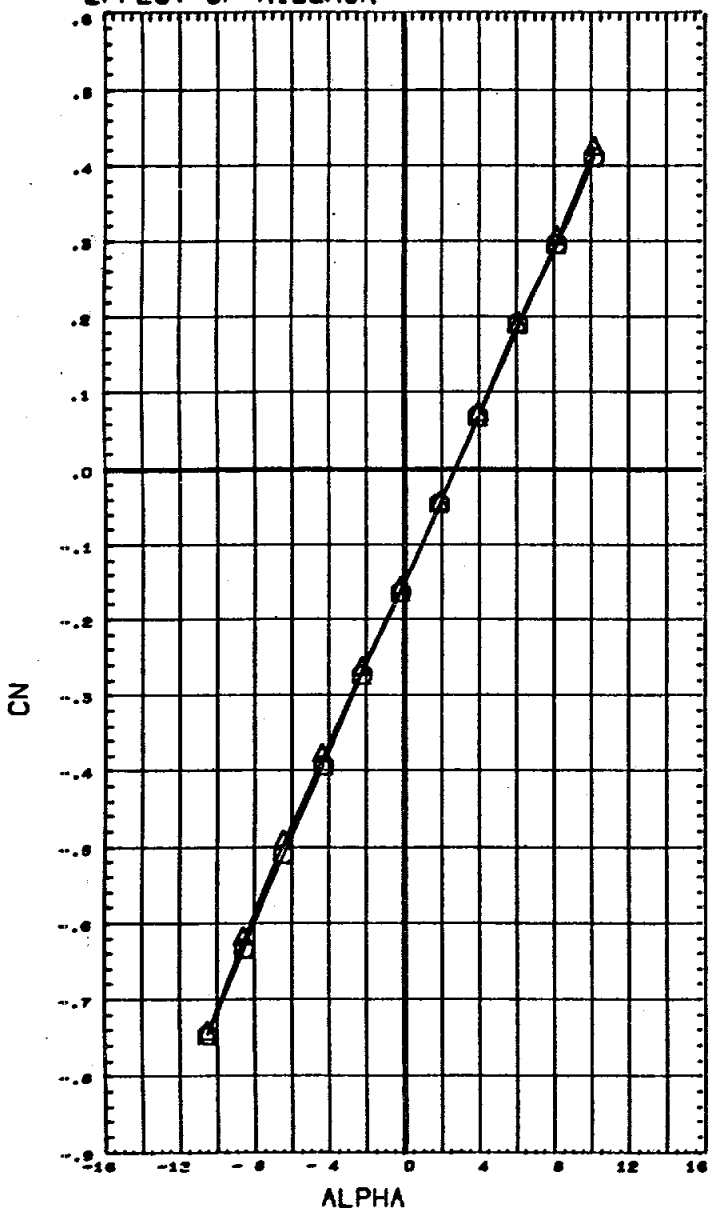


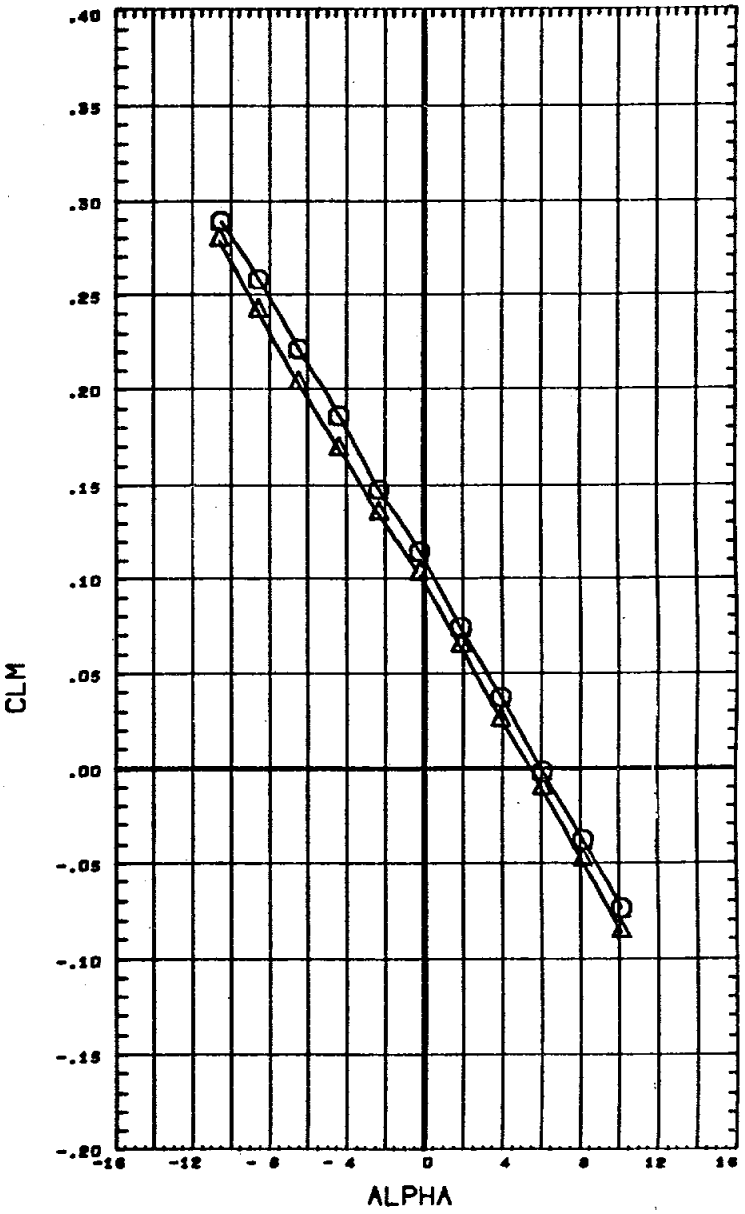
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C24)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(F77C34)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON





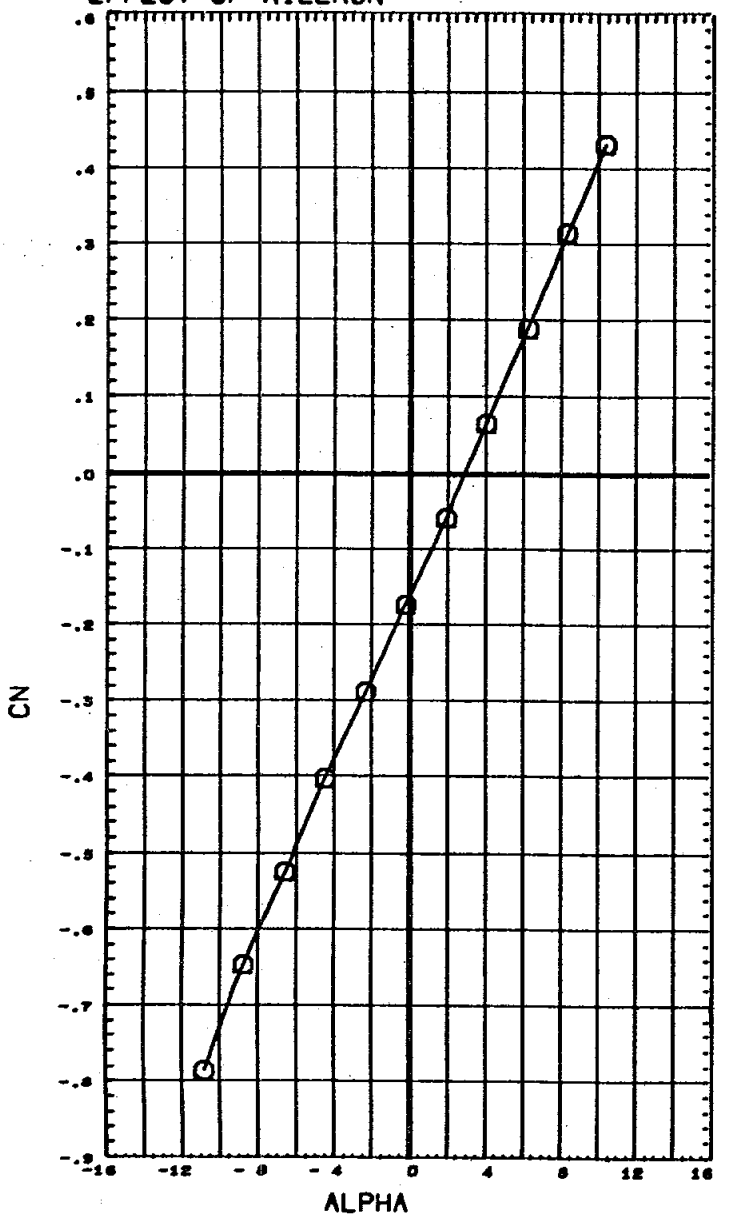
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(C77026)	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(C77016)	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

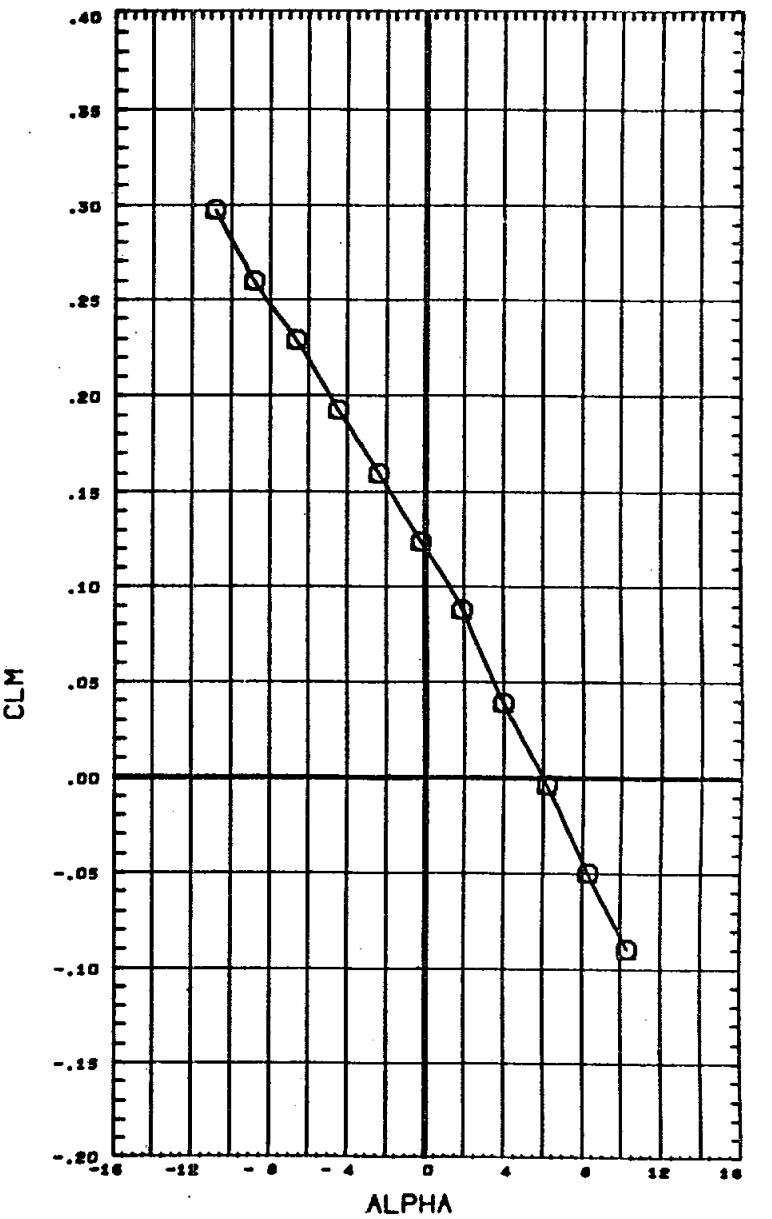
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON





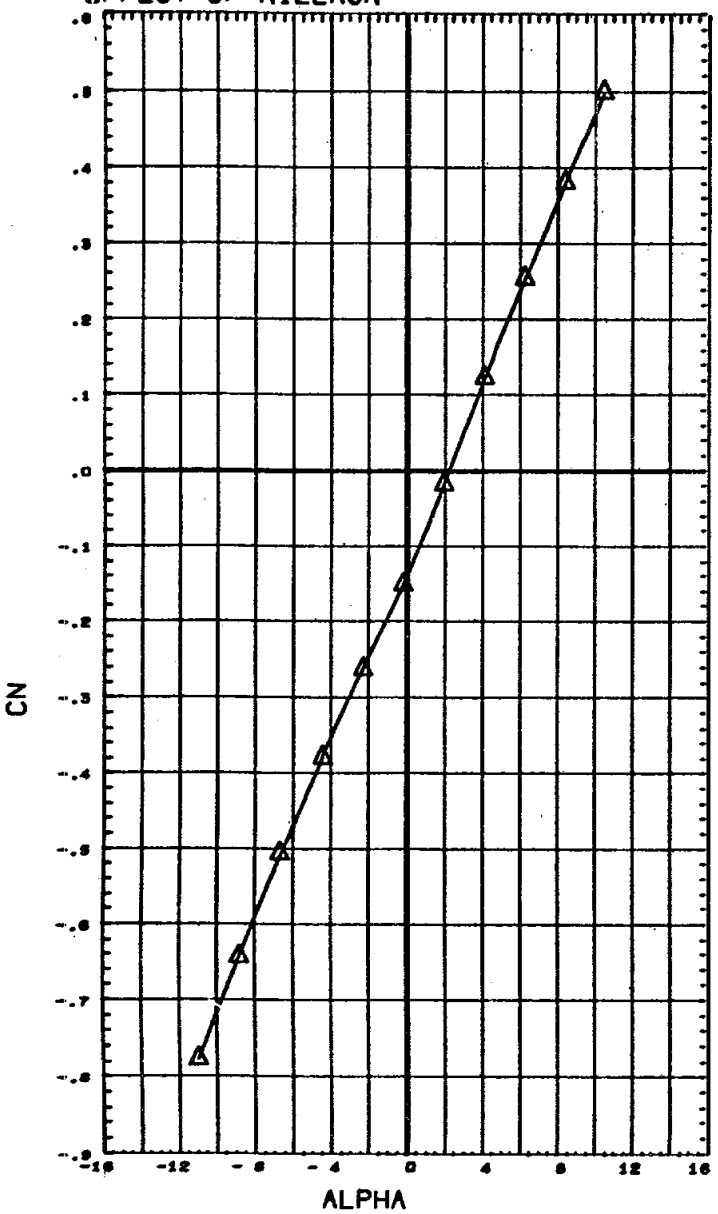
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77026)		M556(IA1) NAR ATP BL LV (02)(T1)(S1)
(C77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS

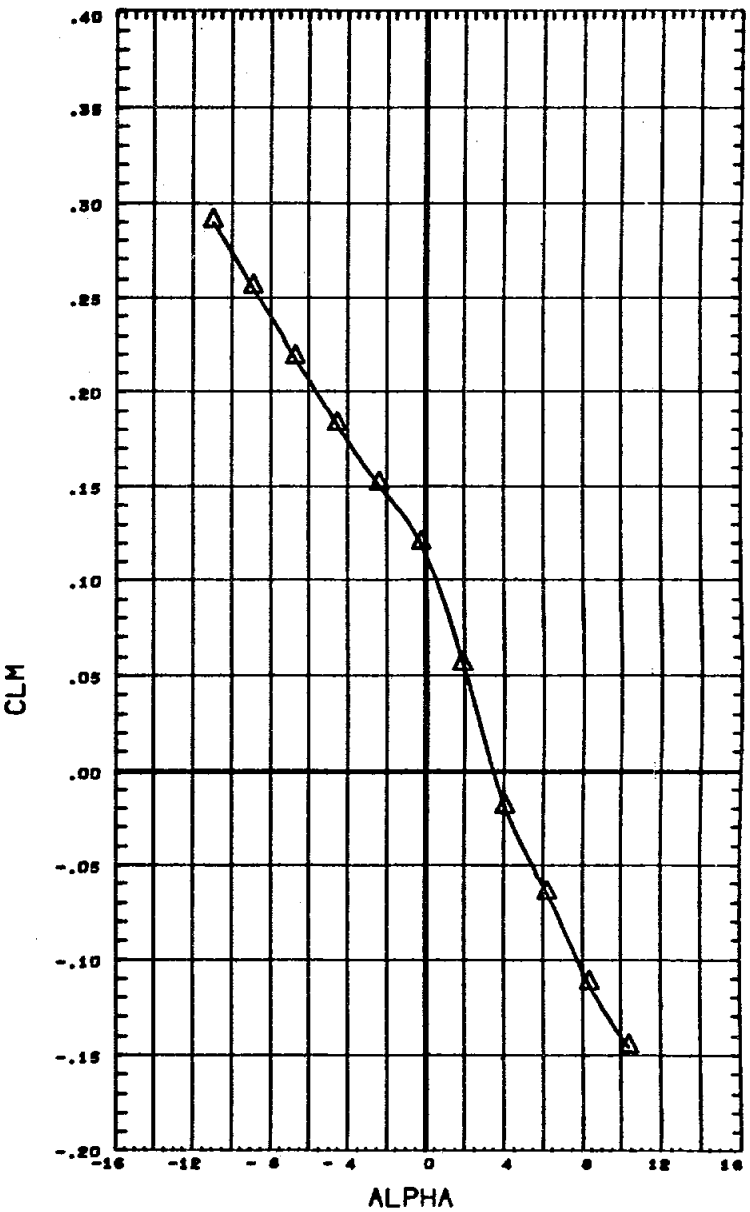
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON





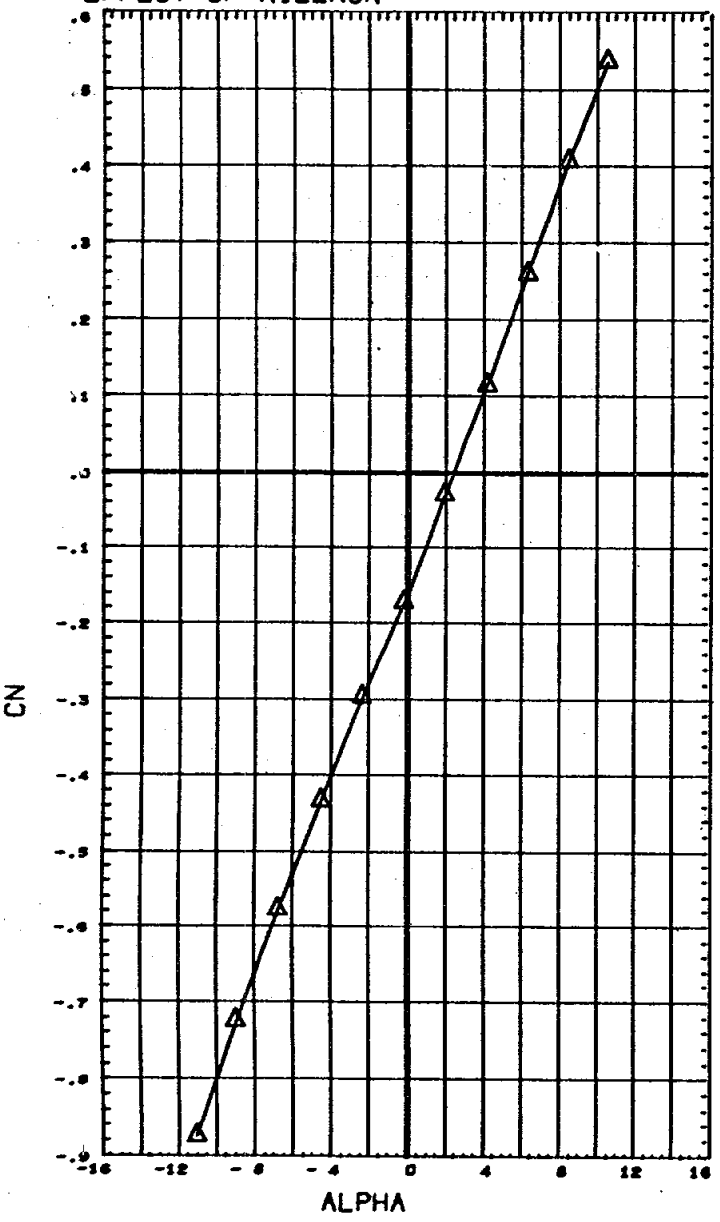
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77026)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

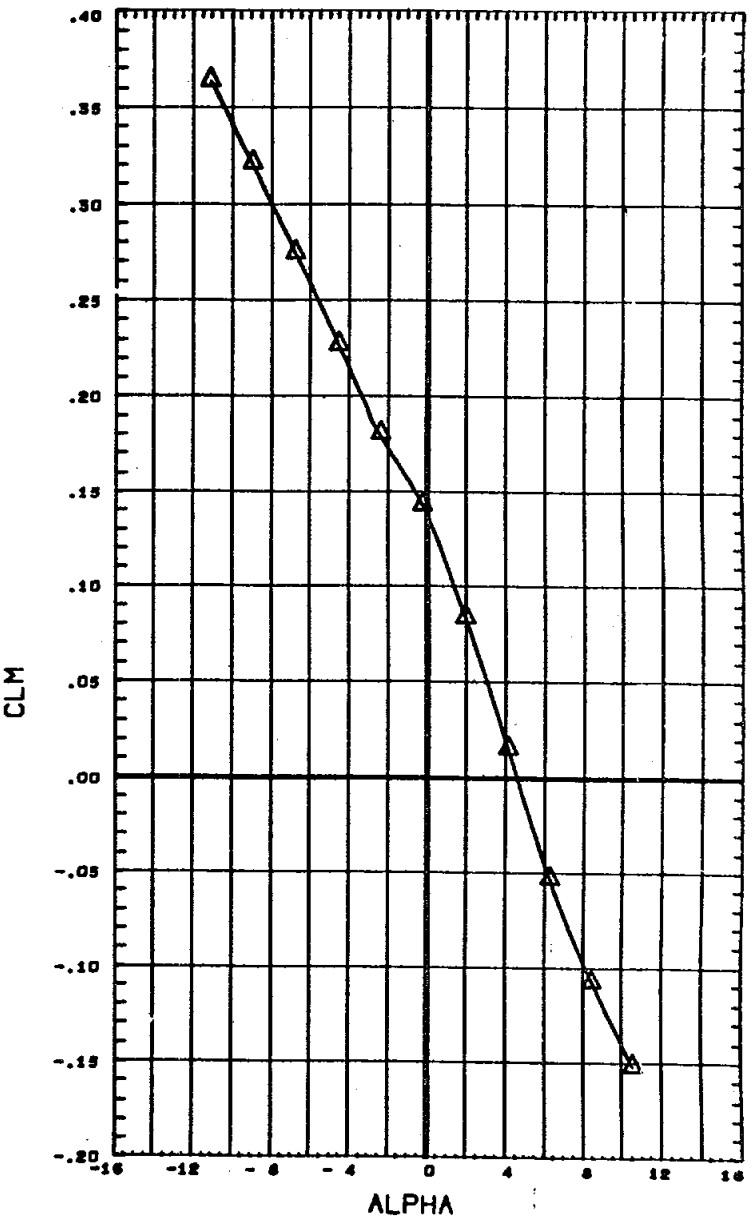
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON





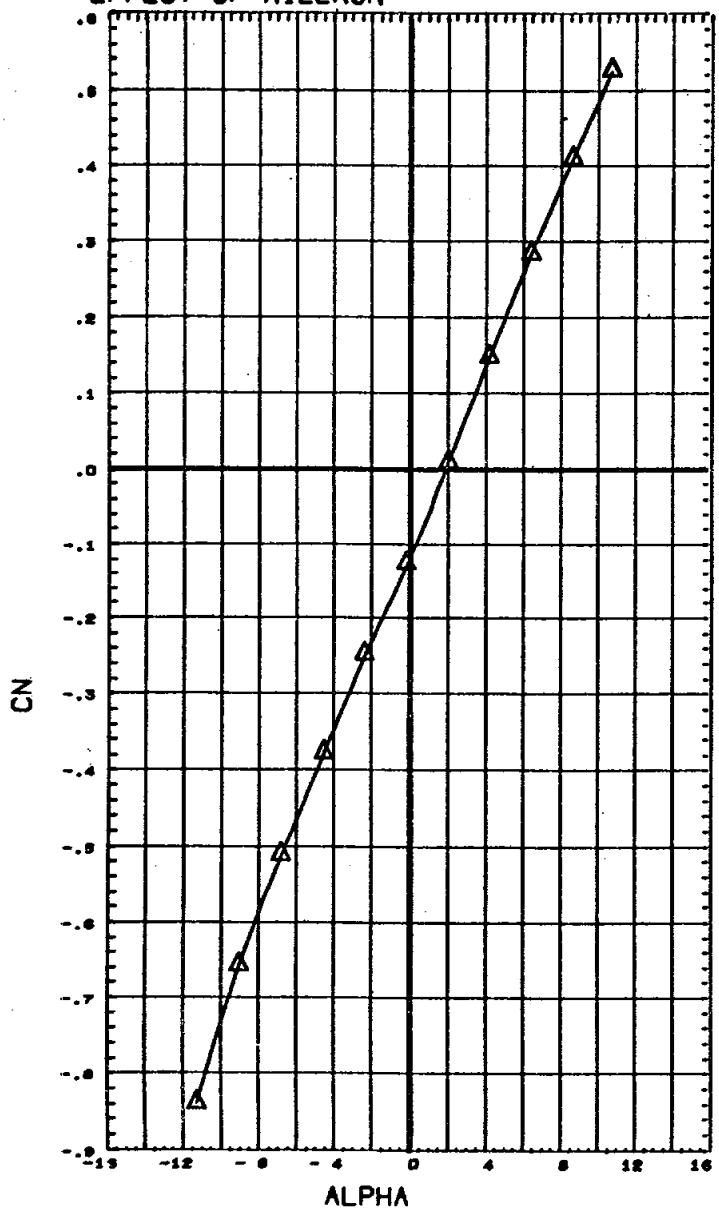
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77026)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	△	M556(IA1) NAR ATP BL LV (02)(T1)(S1)

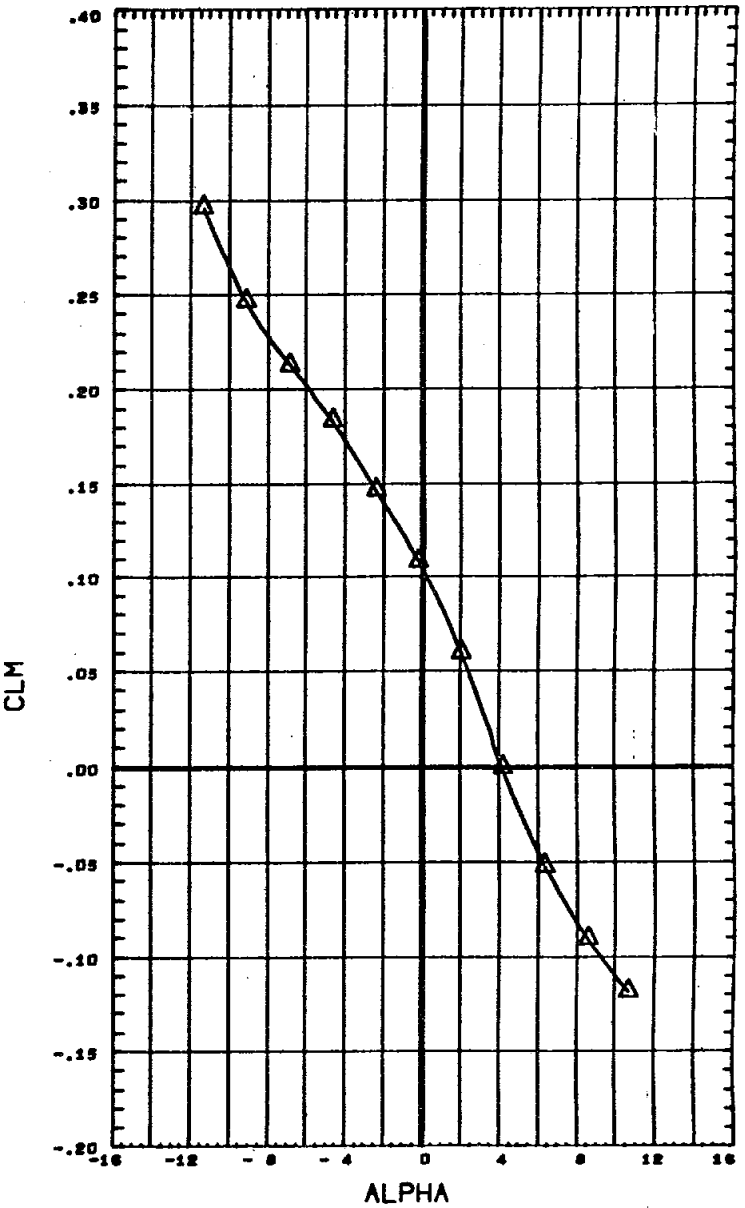
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON





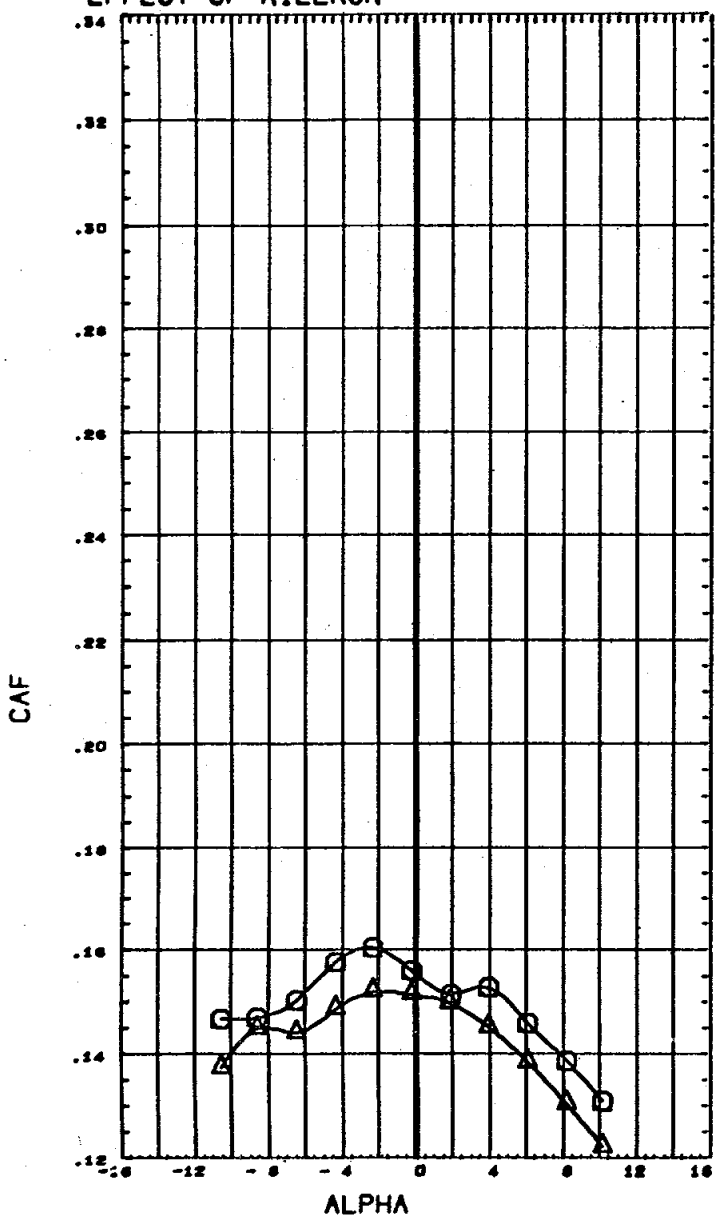
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77026)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

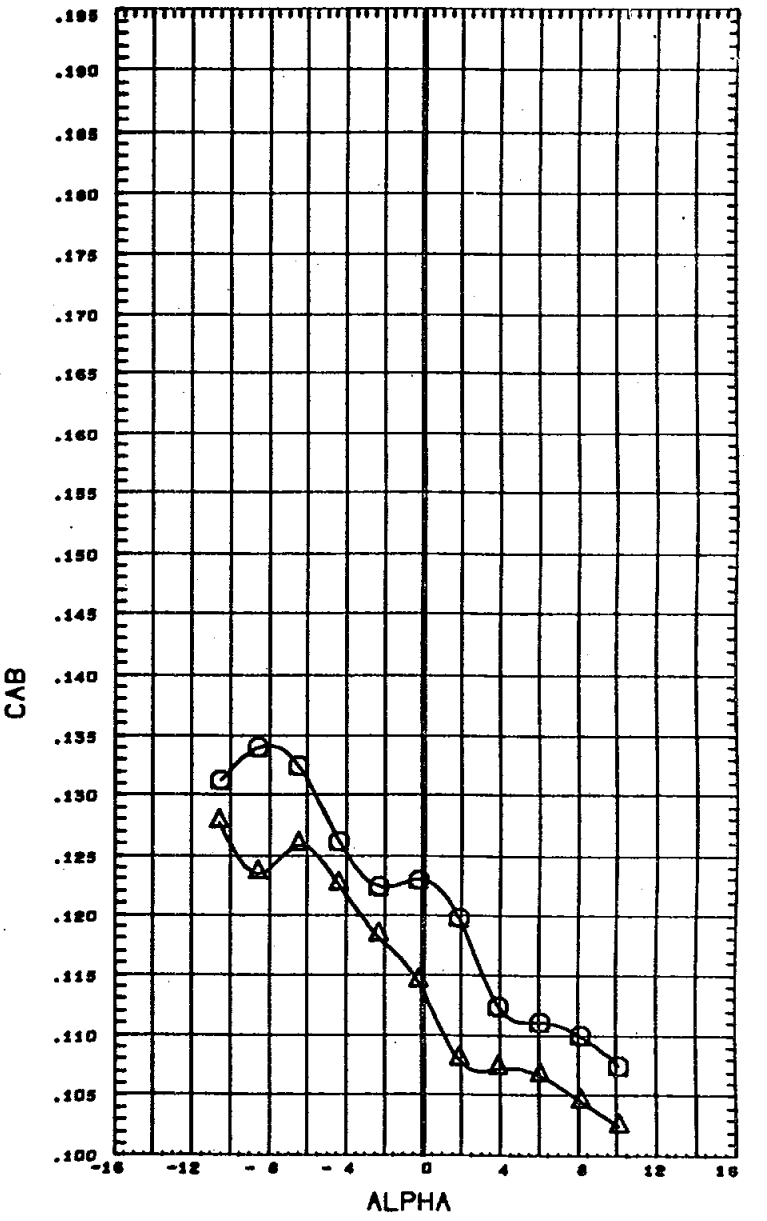
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON





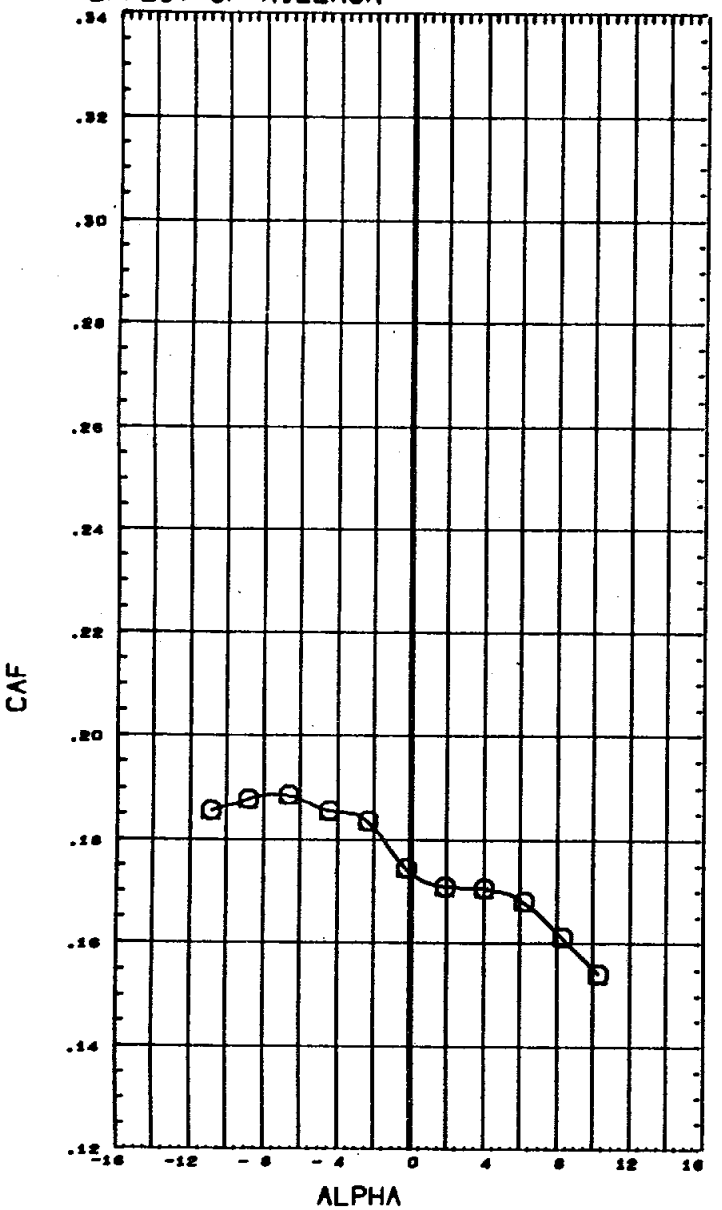
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77026)	○	M556(IA1) NAR ATP BL LV (02)(T1)(S1)
(C77016)	△	M556(IA1) NAR ATP BL LV (02)(T1)(S1)

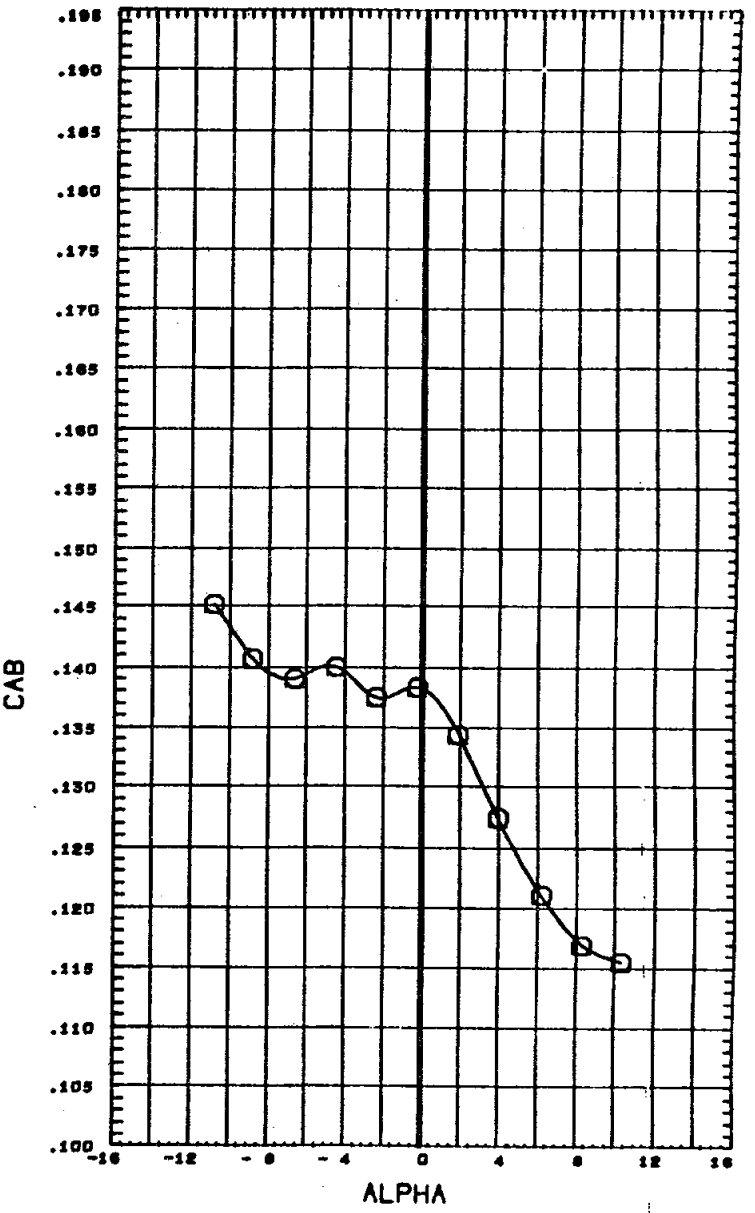
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77026) M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

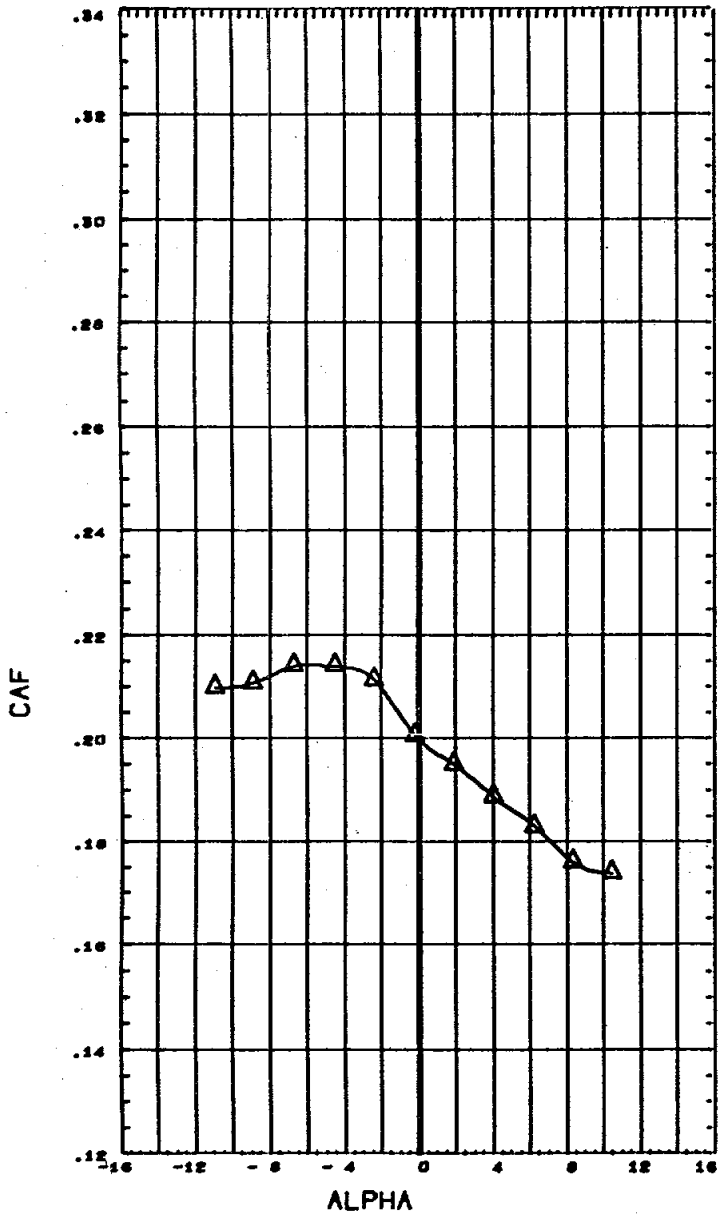
(C77016) DATA NOT AVAILABLE FOR ALL CONDITIONS

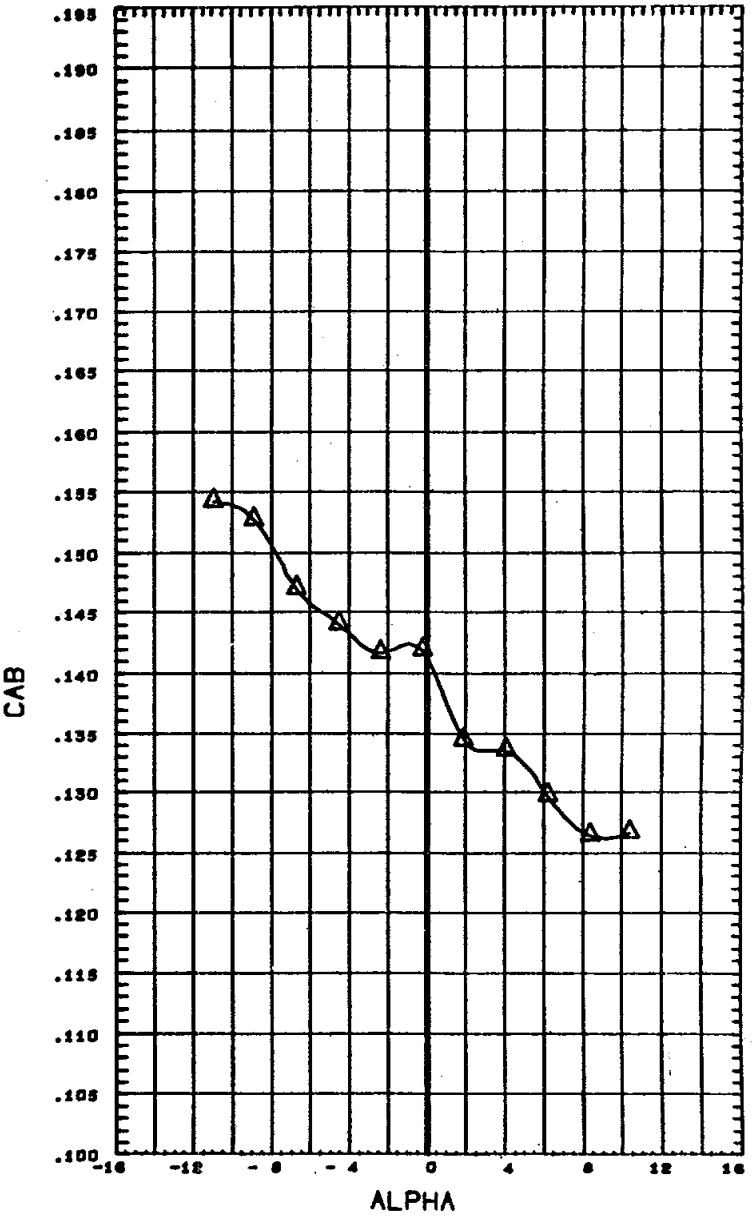
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON





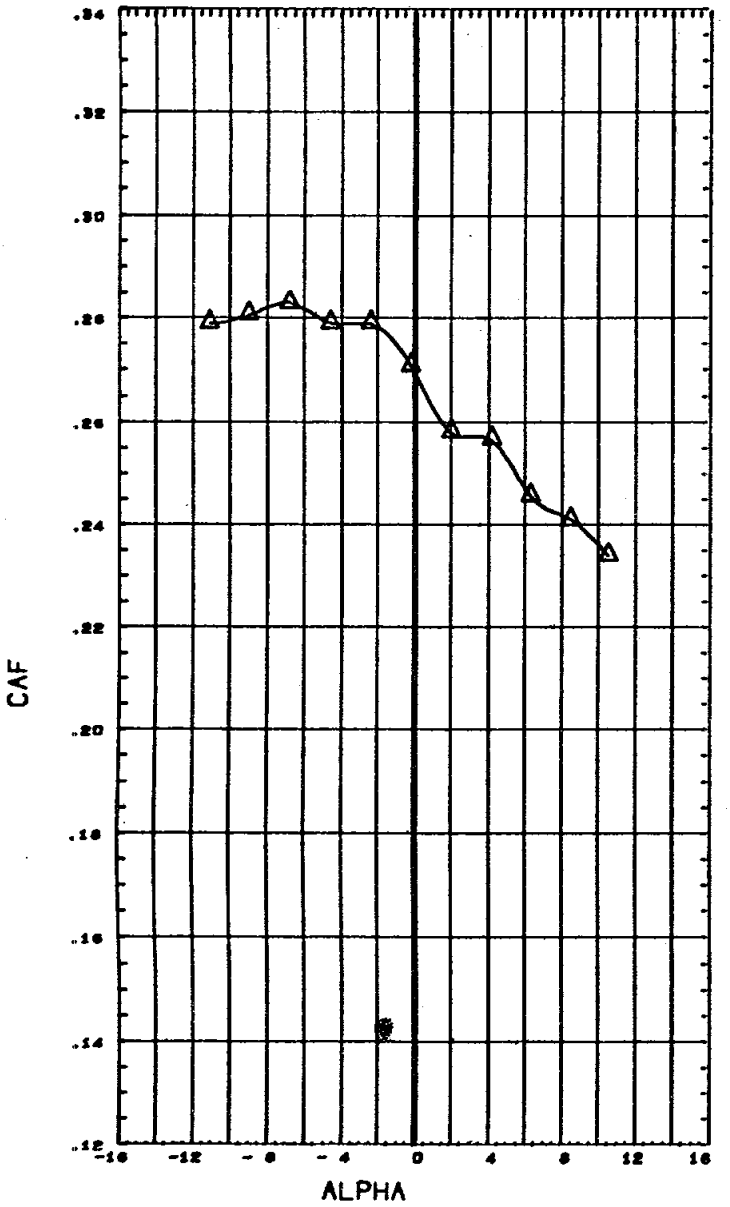
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77026)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

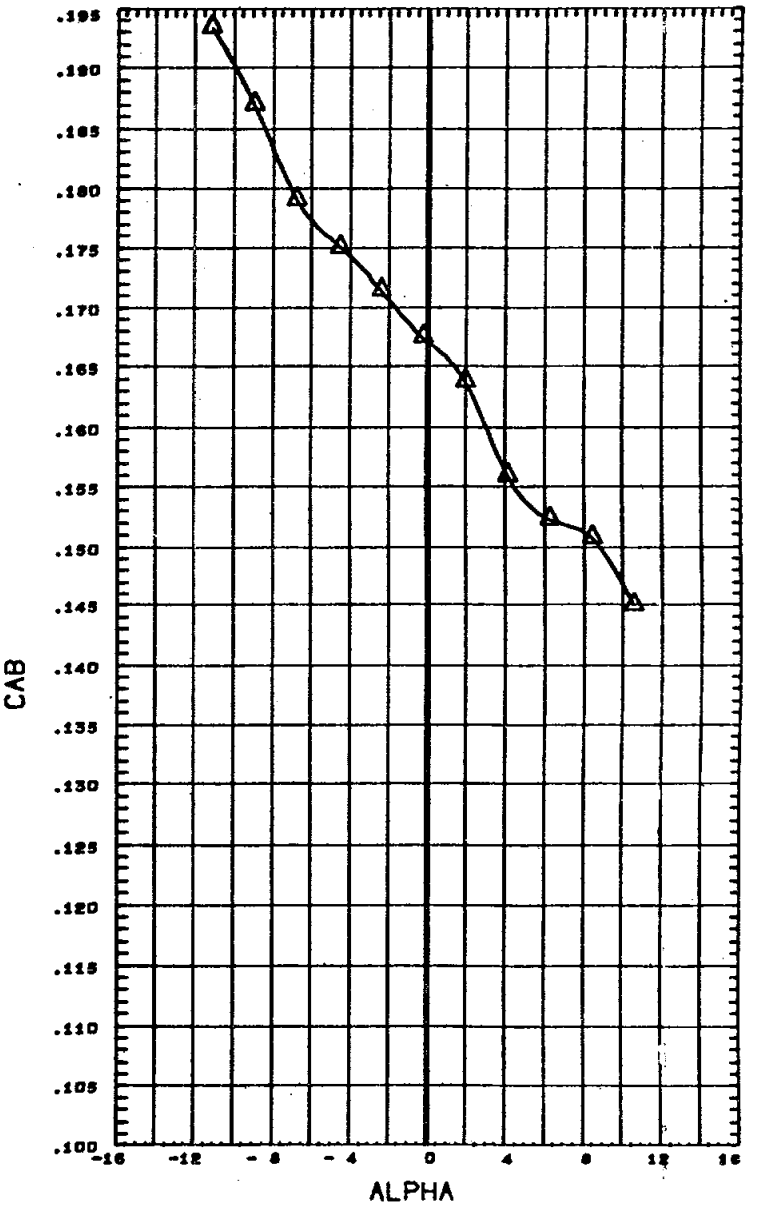
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON





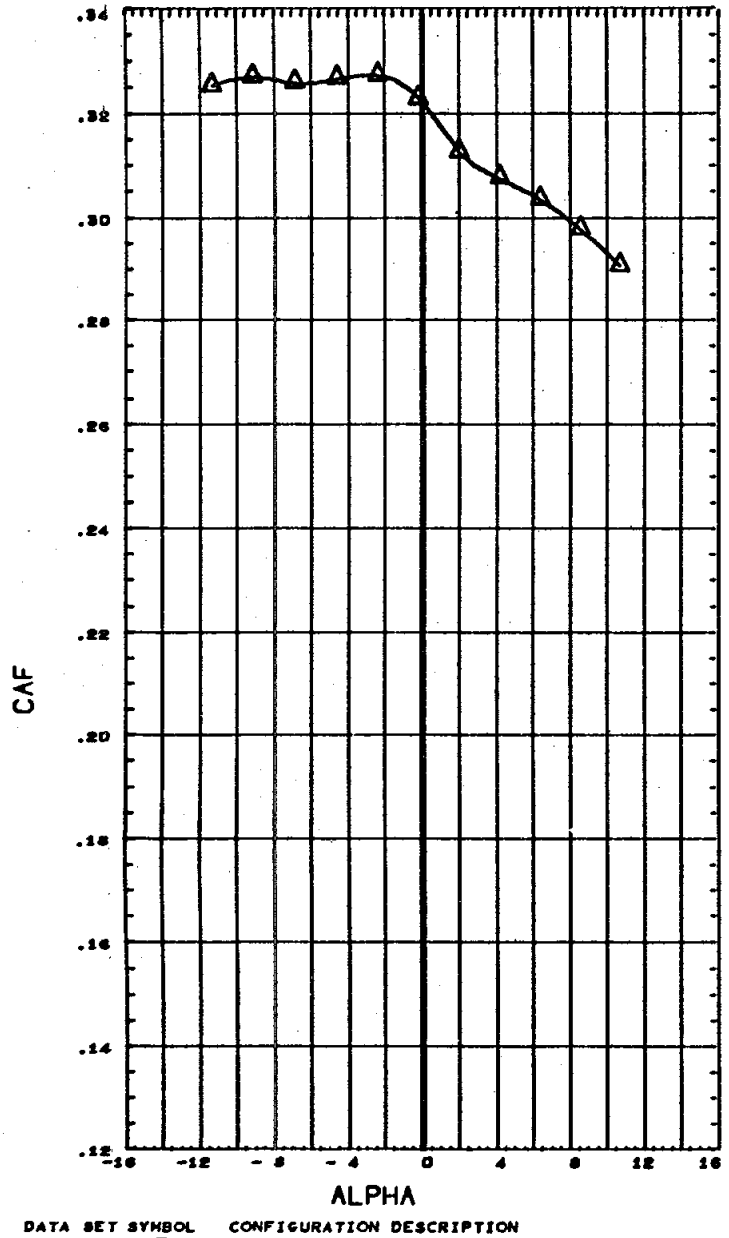
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(C77016)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

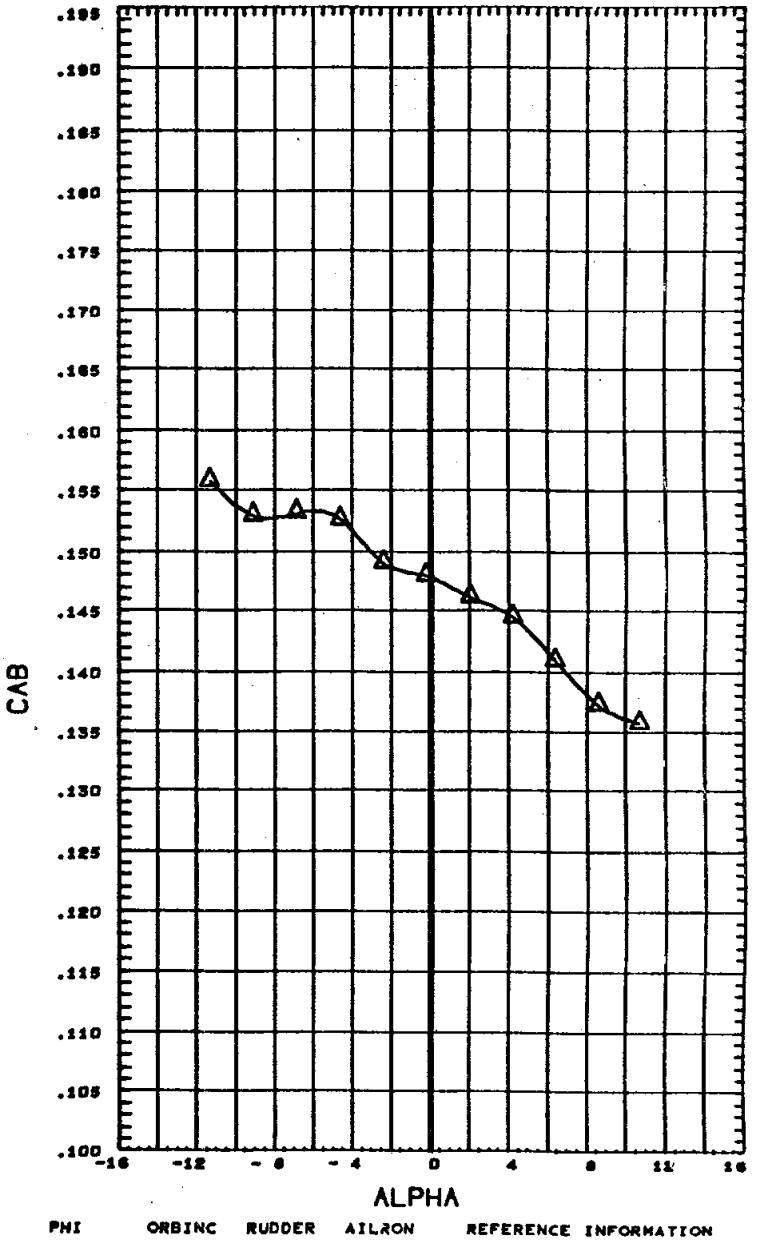
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80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77026) DATA NOT AVAILABLE FOR ALL CONDITIONS

(C77016) M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

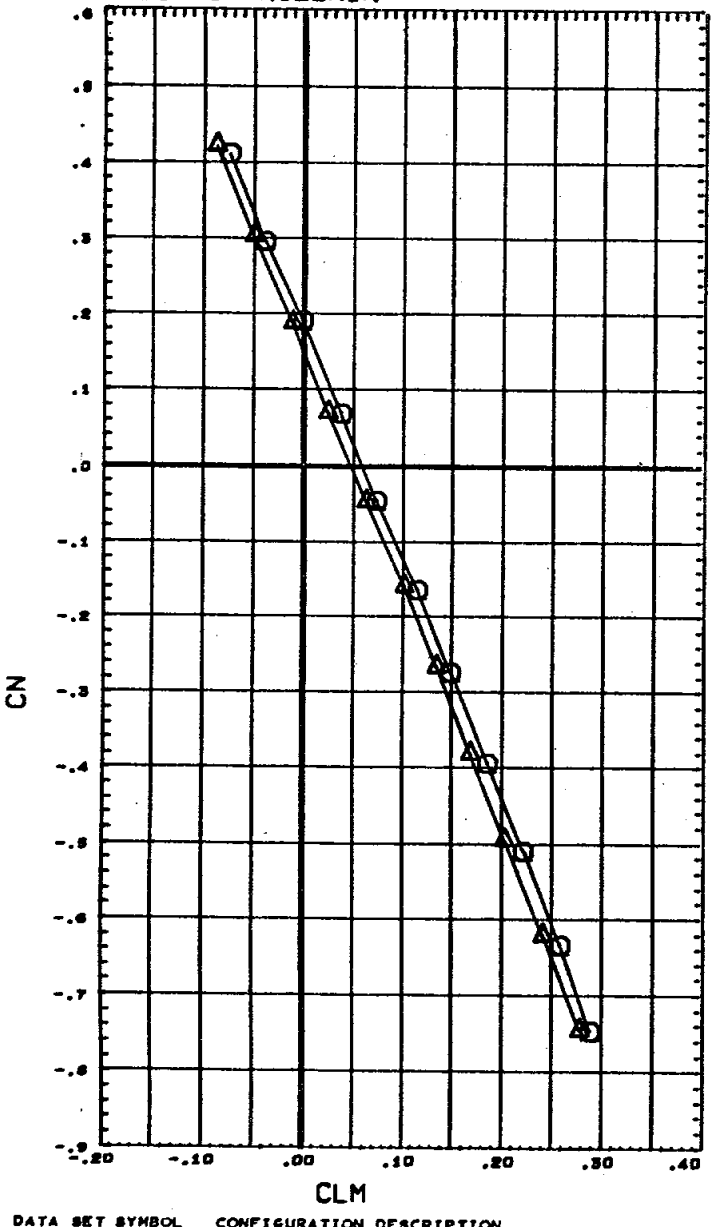
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80.000	0.000	0.000	0.000

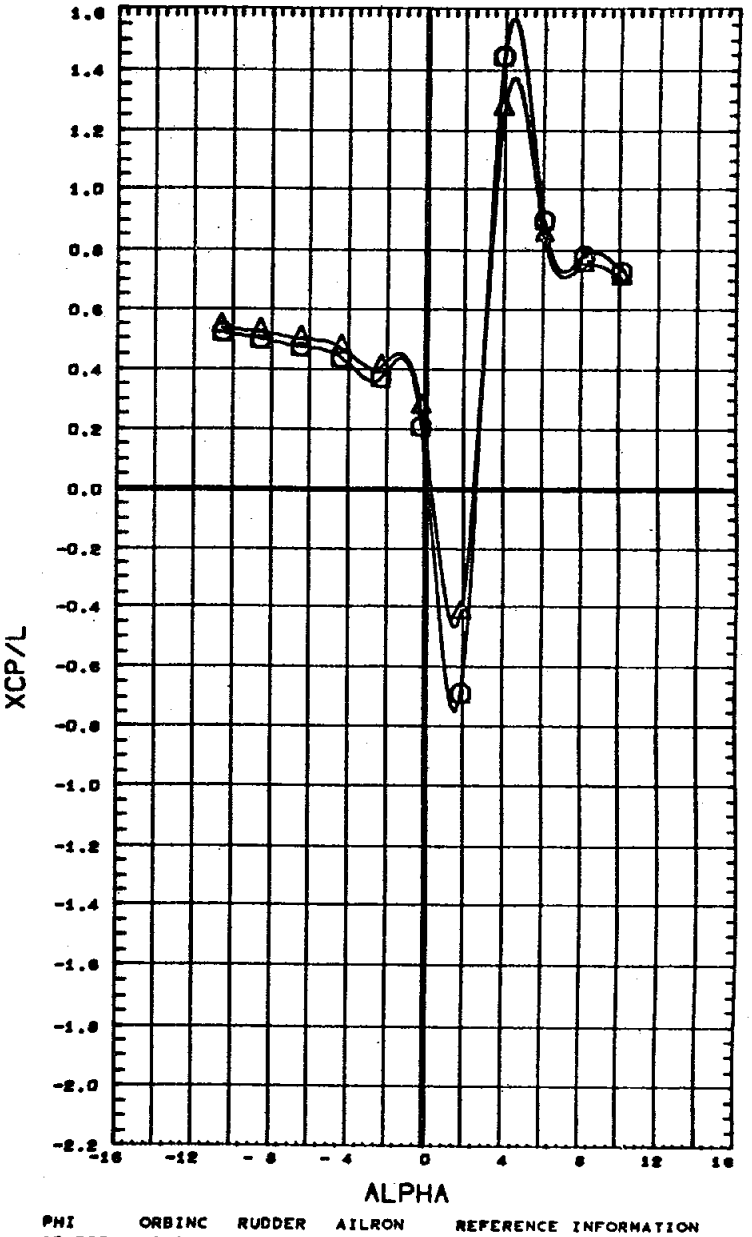
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BREF	5.3120	IN.
XMRP	4.8200	IN.
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ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77026) M556(IA1) NAR ATP BL LV (O2) (T1) (S1)

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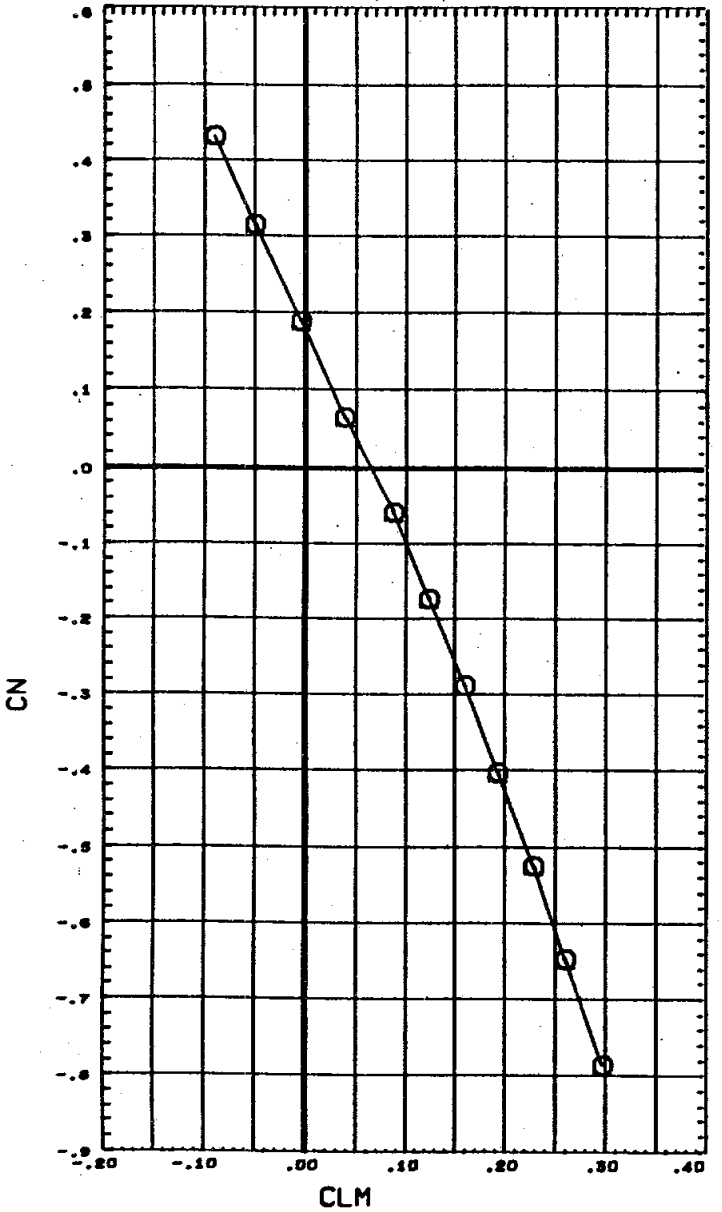
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80.000	0.000	0.000	0.000

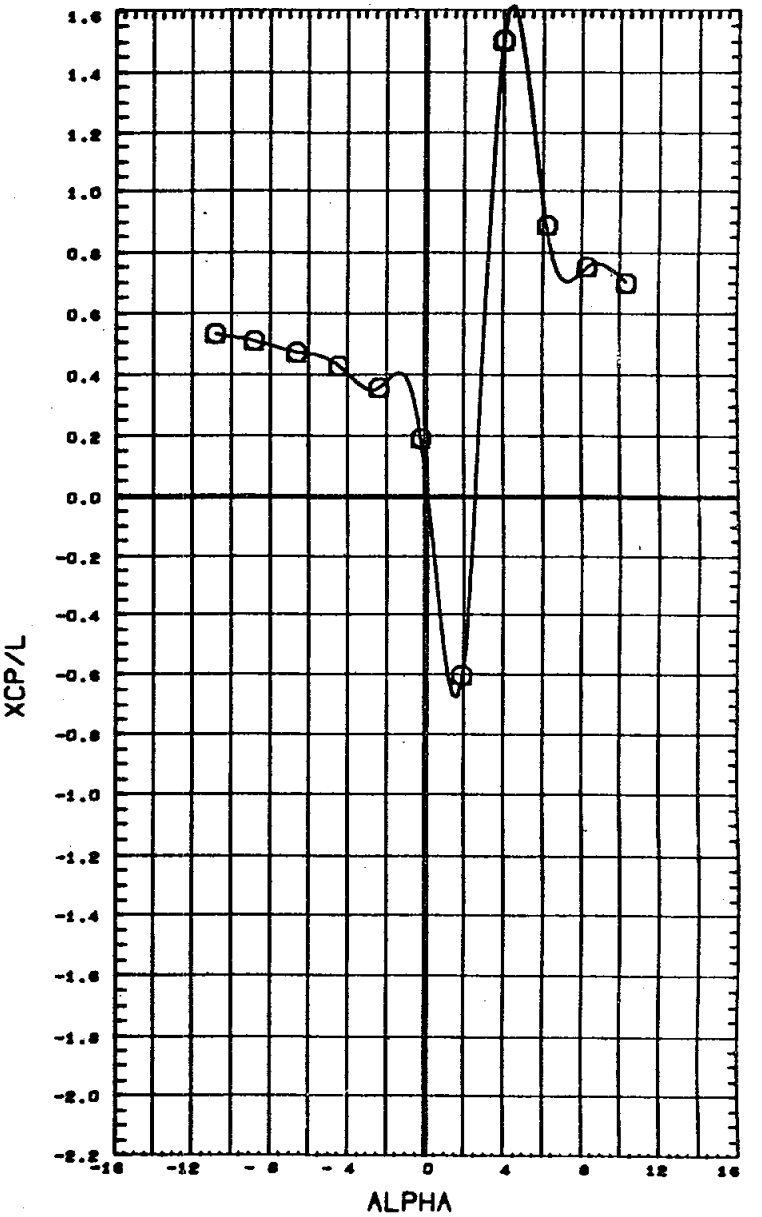
REFERENCE INFORMATION

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XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON





DATA SET SYMBOL CONFIGURATION DESCRIPTION

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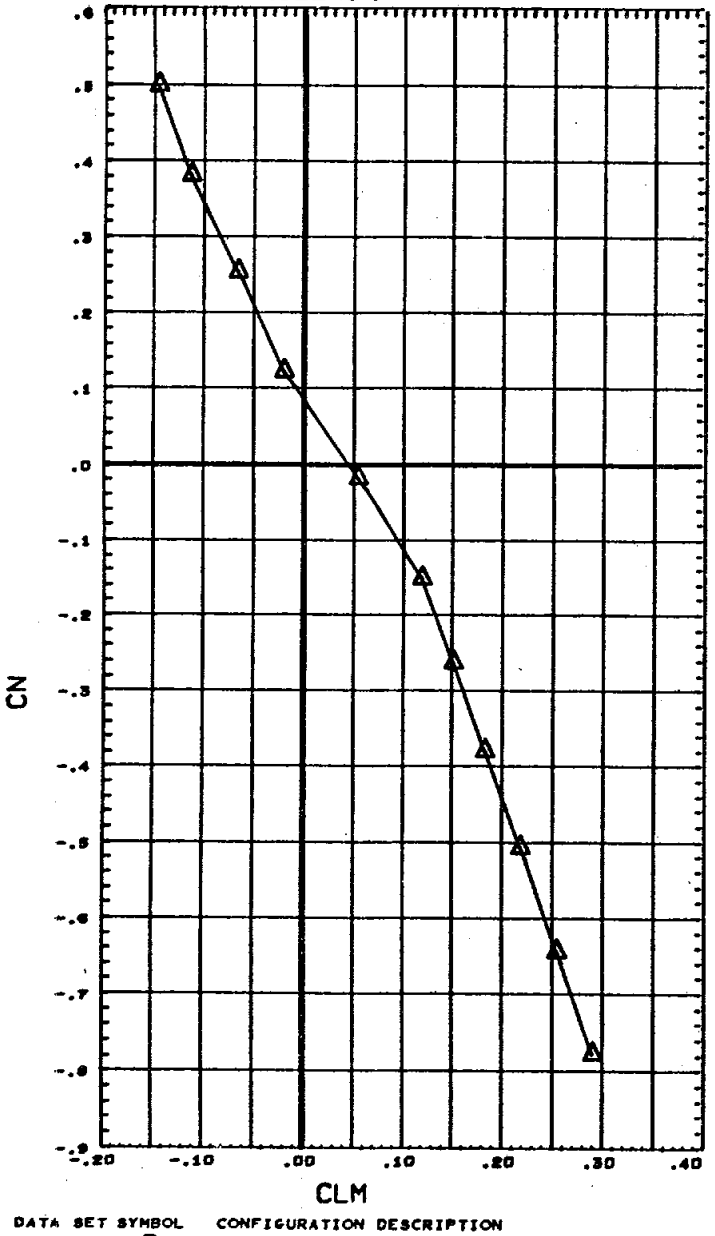
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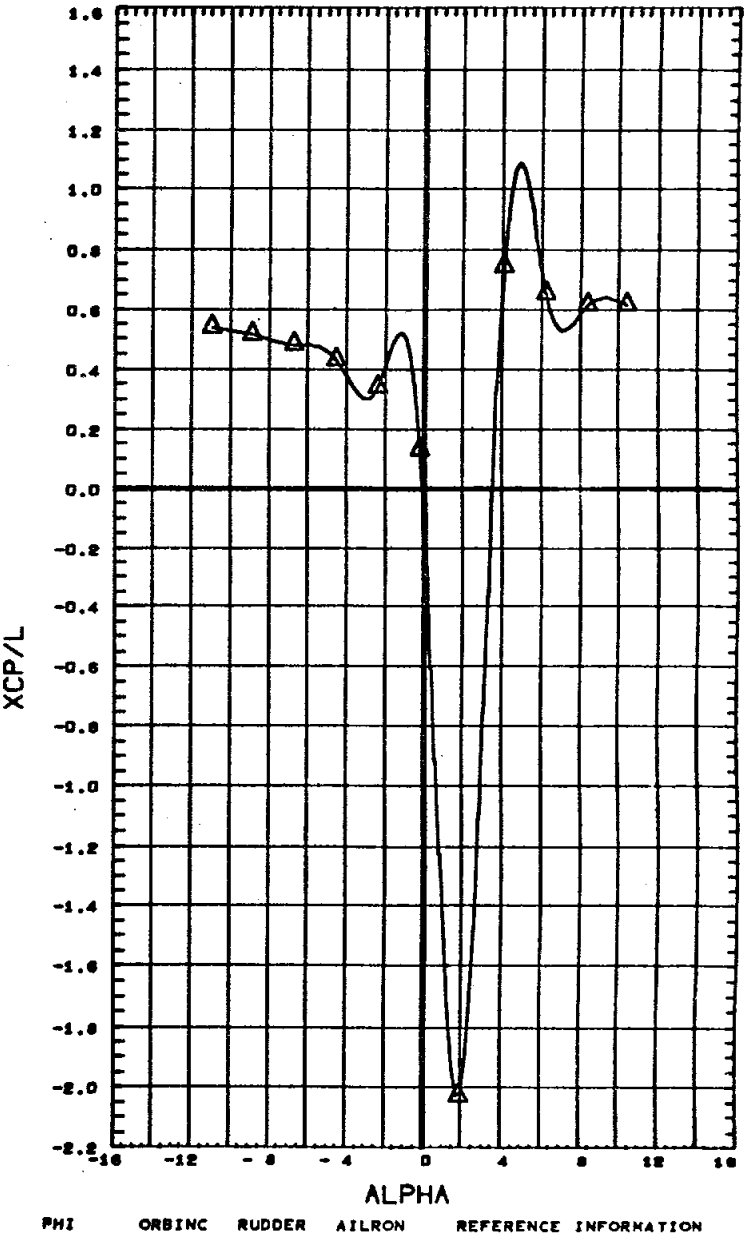
PHI	ORBINC	RUDDER	AILRON
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60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON





DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C77026) DATA NOT AVAILABLE FOR ALL CONDITIONS

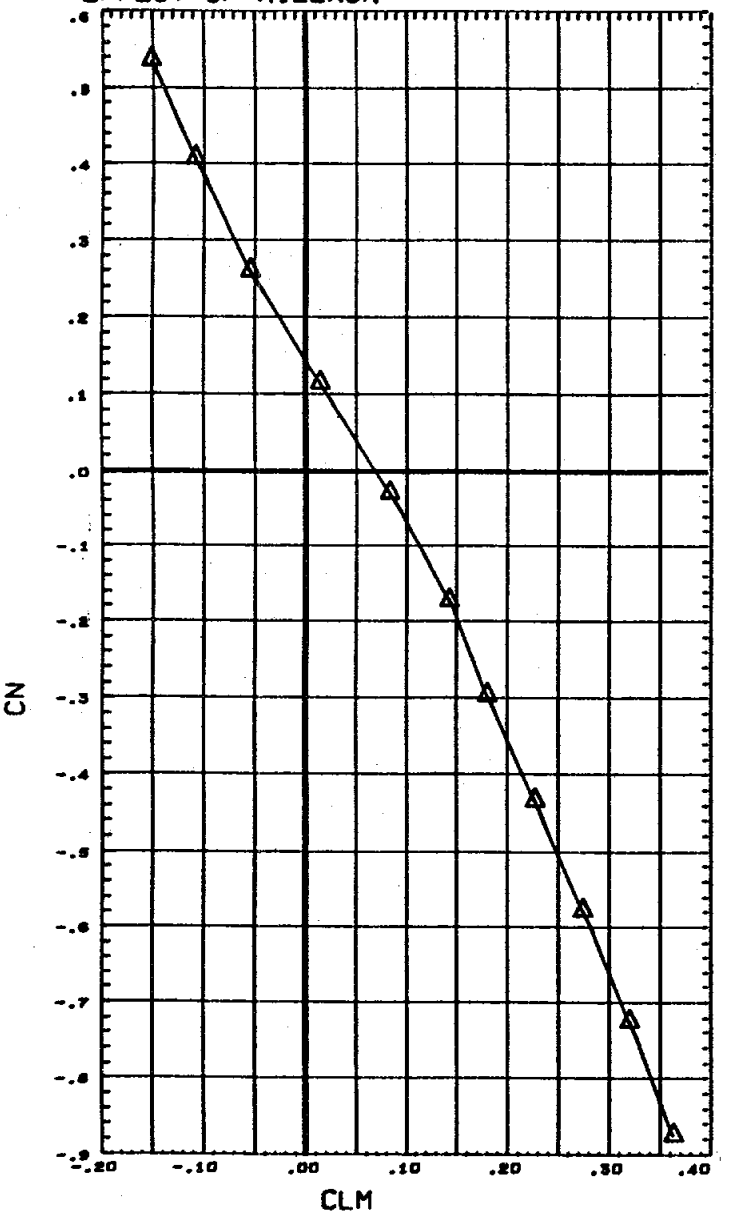
(C77016) M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

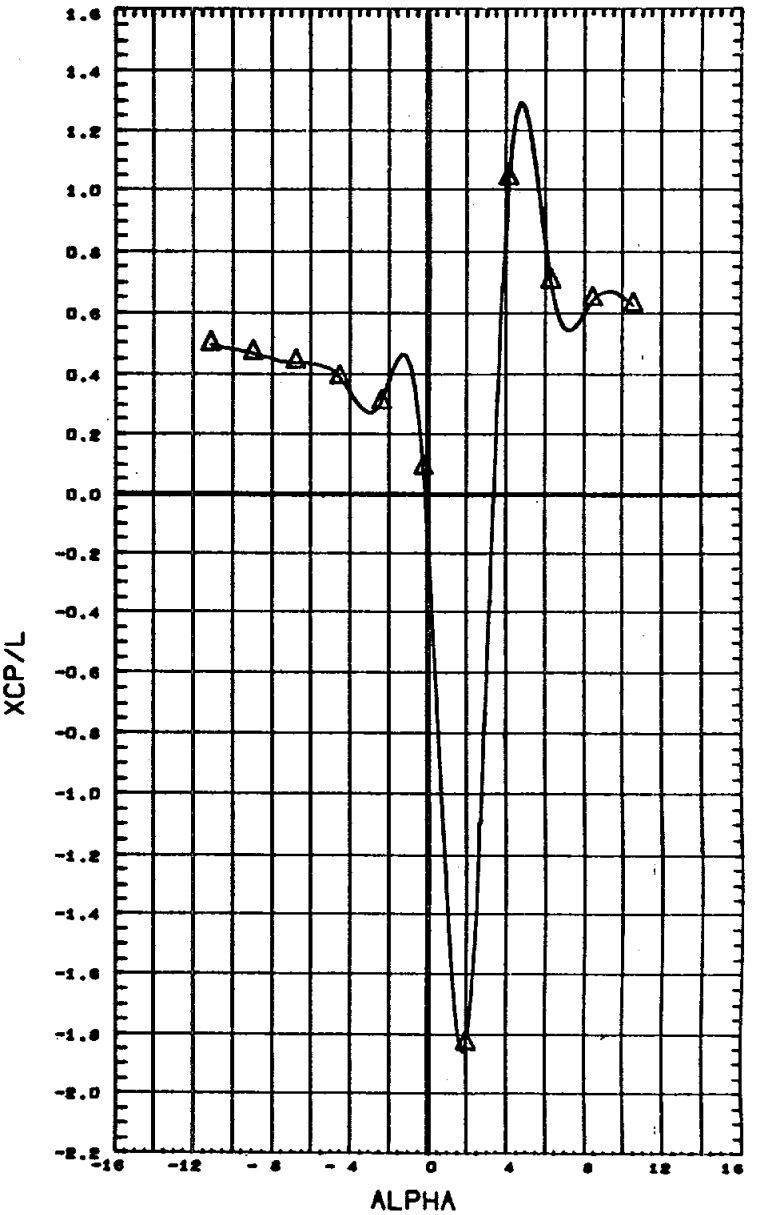
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON





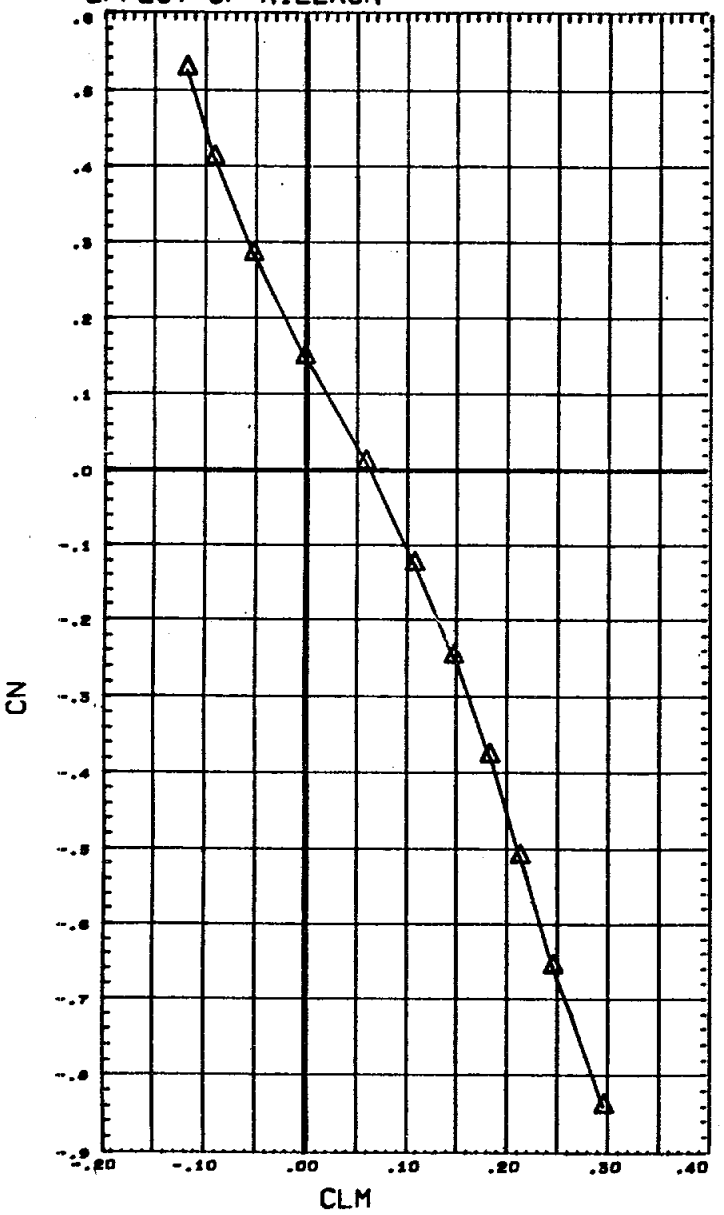
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(C77016)	△	M556(IA1) NAR ATP BL LV (02)(T1)(S1)

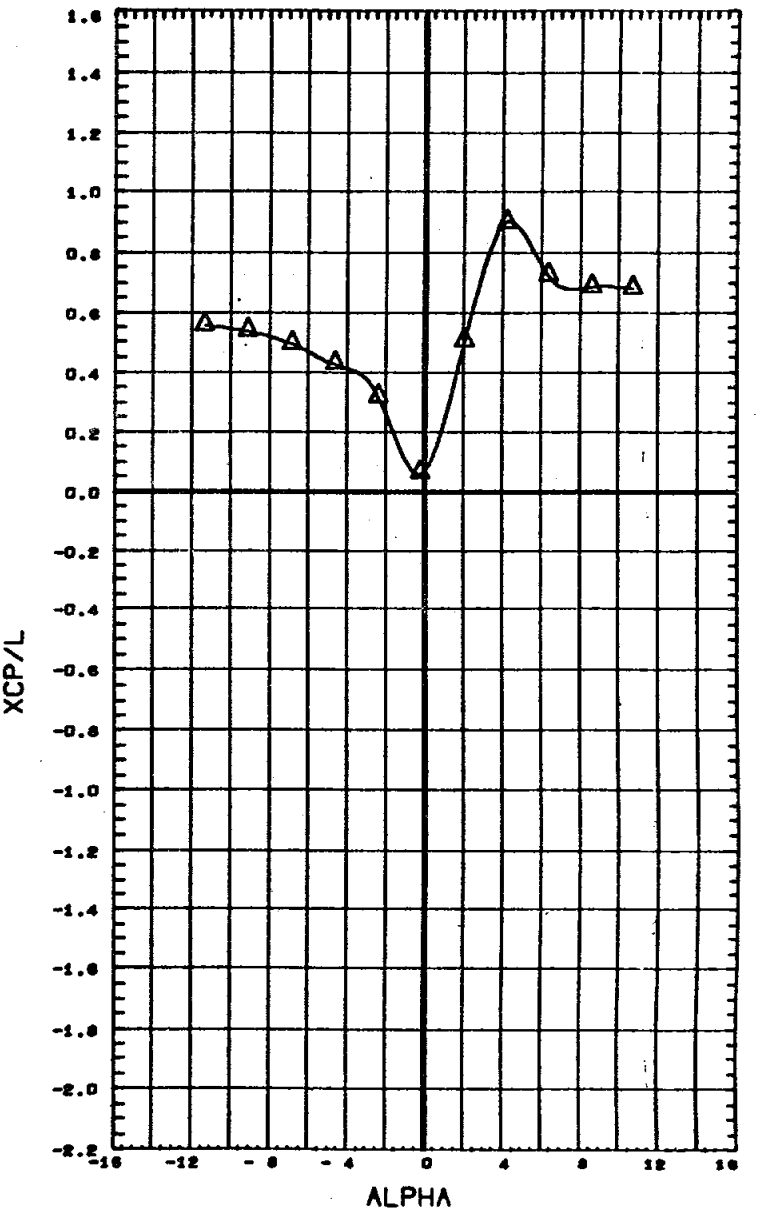
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON





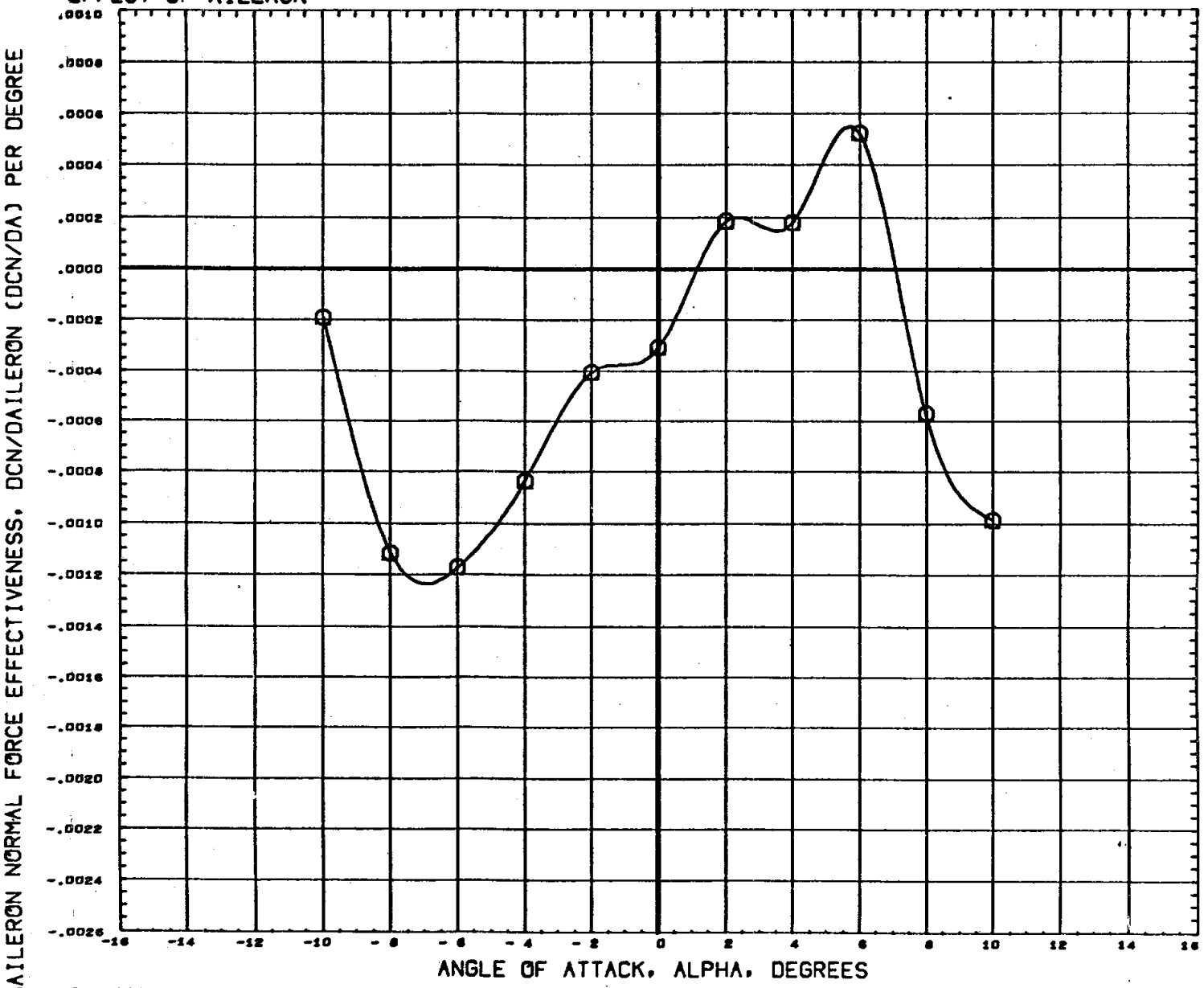
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77026)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

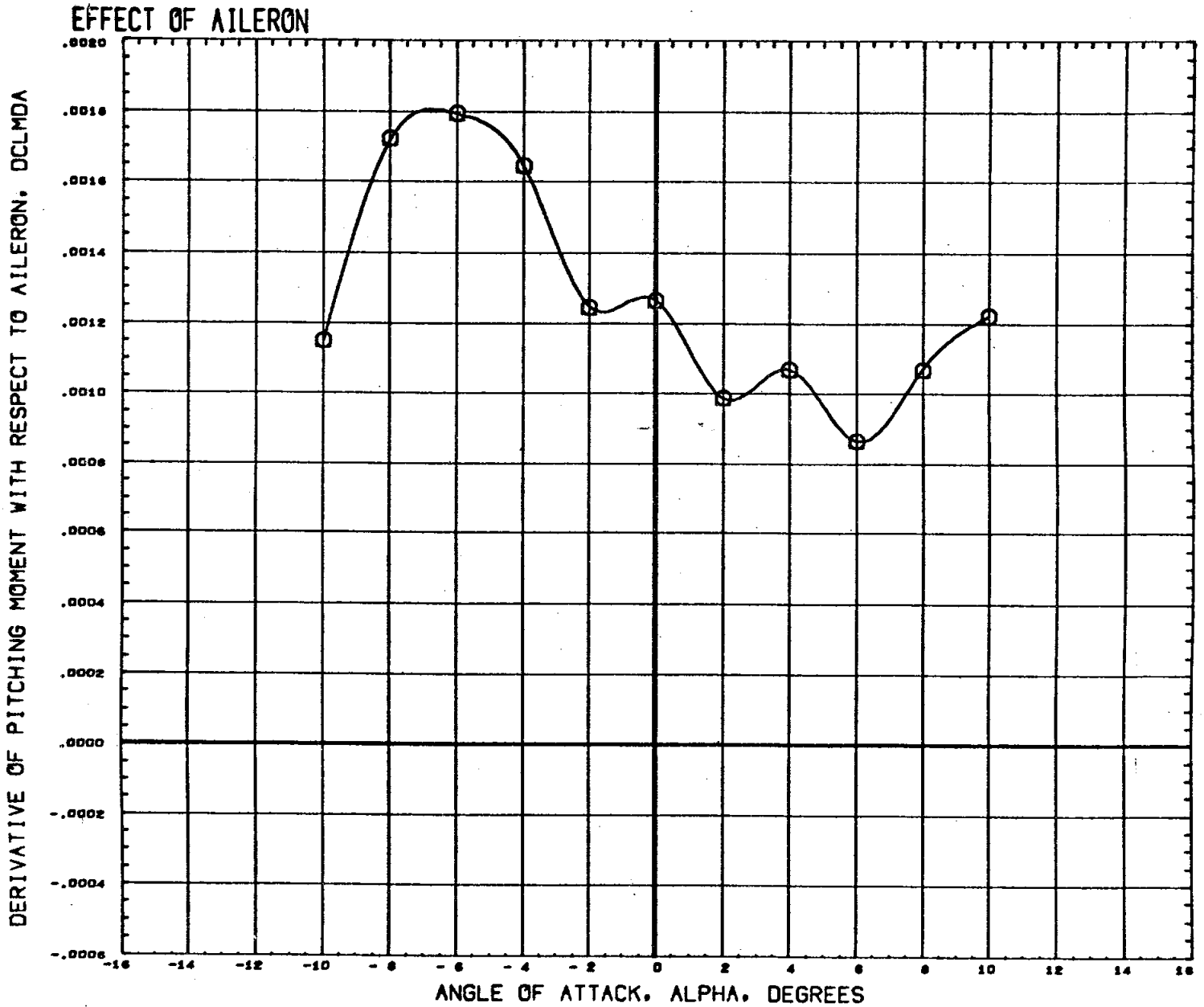
EFFECT OF AILERON



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C26) ○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

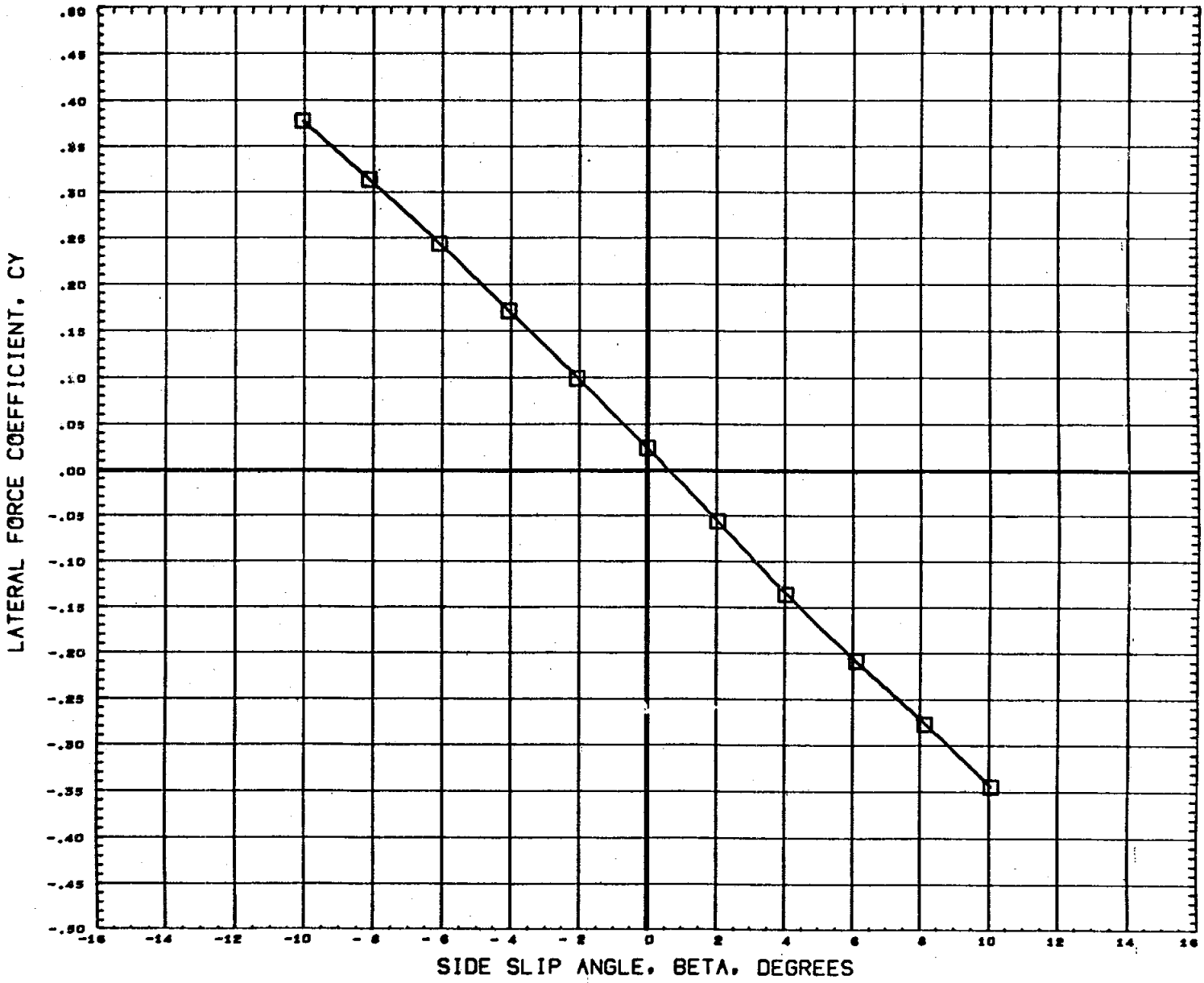


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C26) O	M556(IA1) NAR ATP BL LV (02)(T1)(S1)	80.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

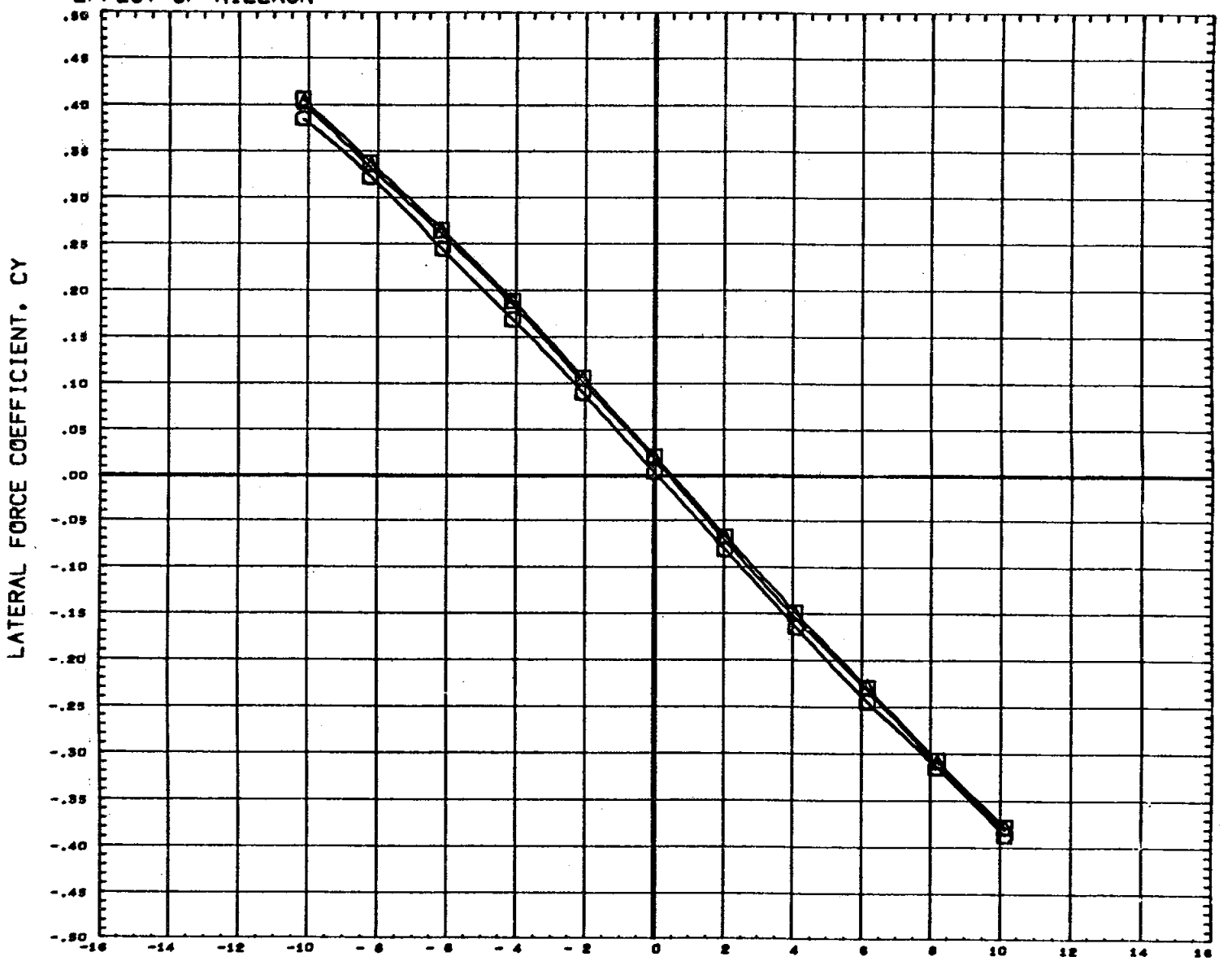


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77015)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

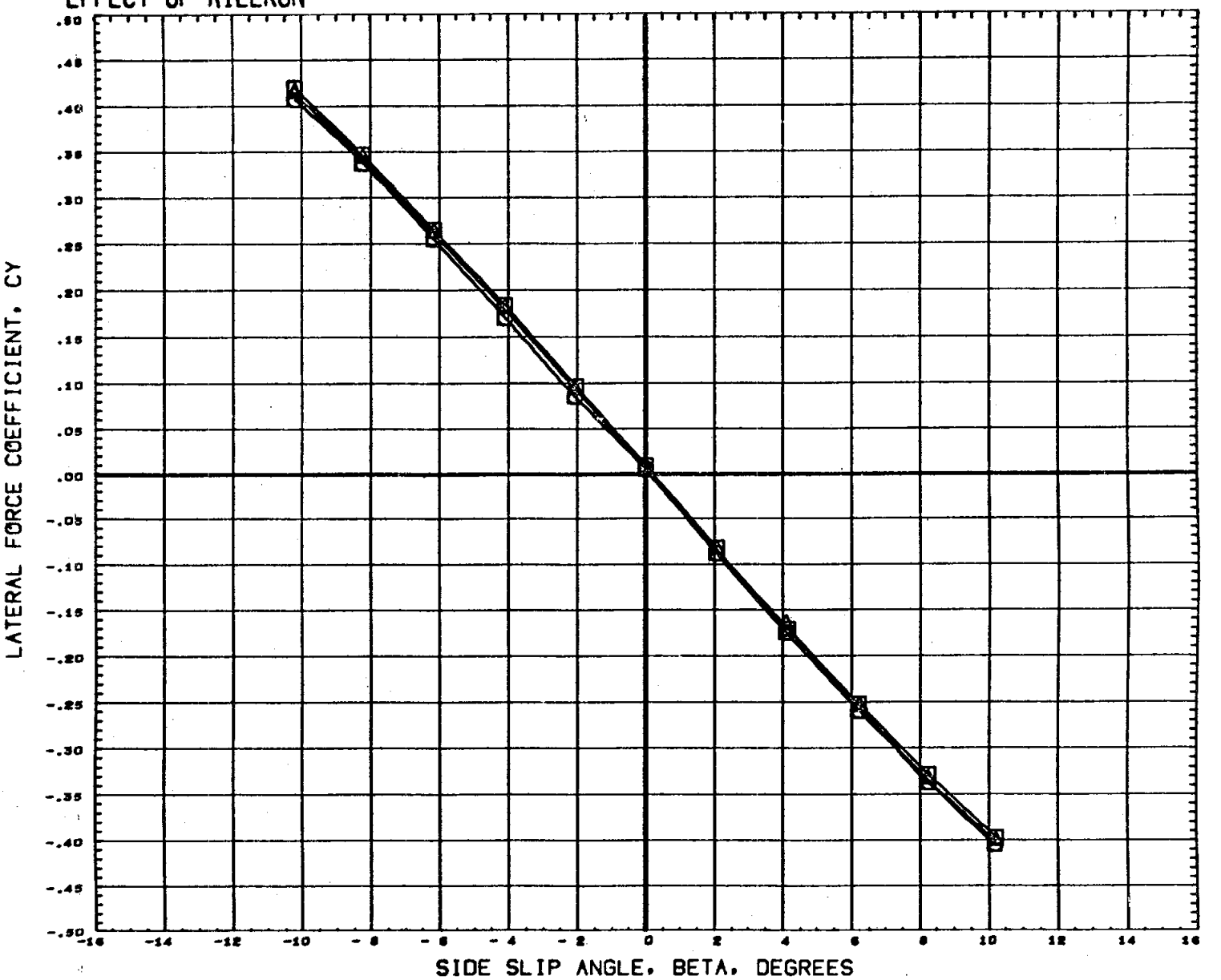


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON

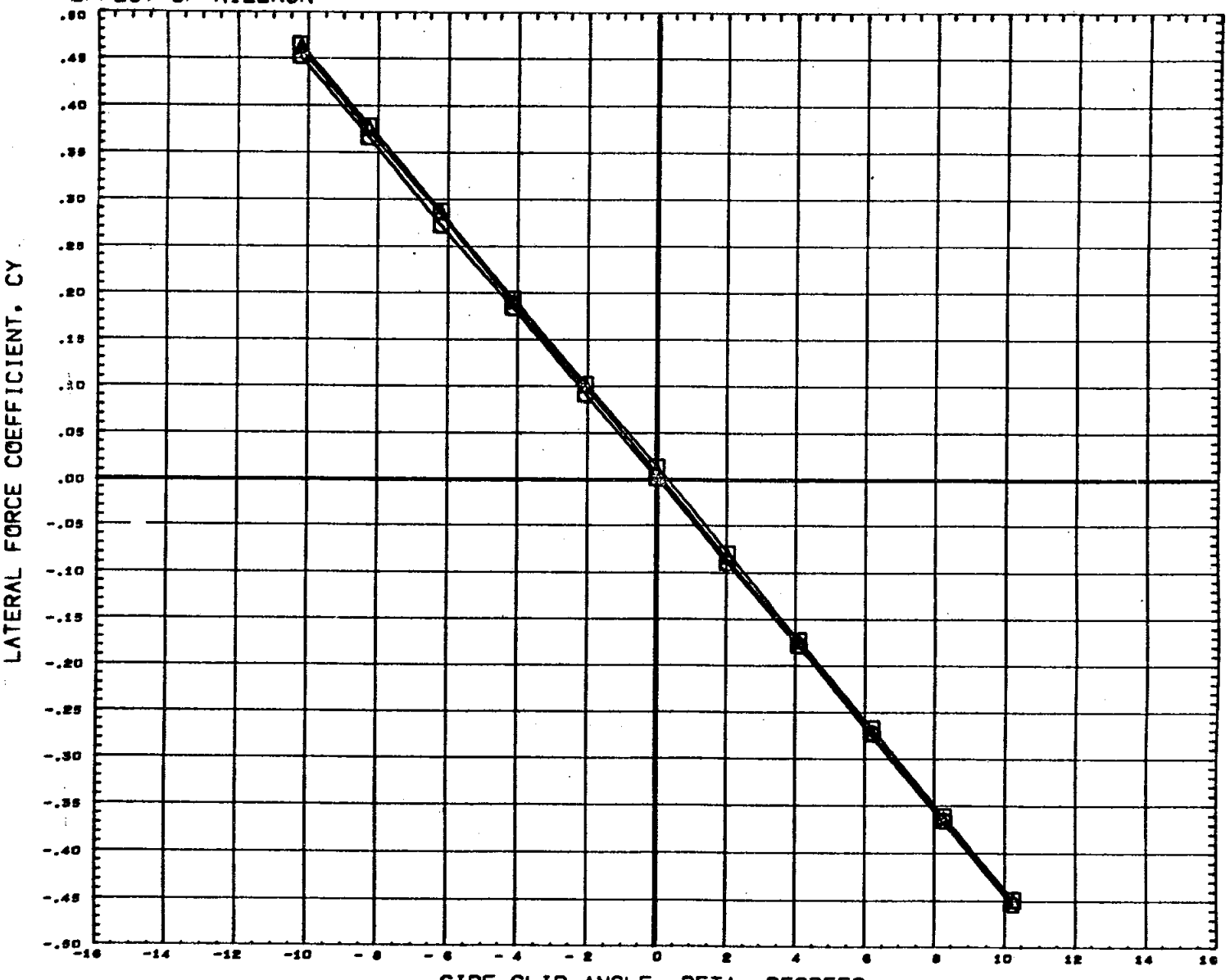


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77015)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



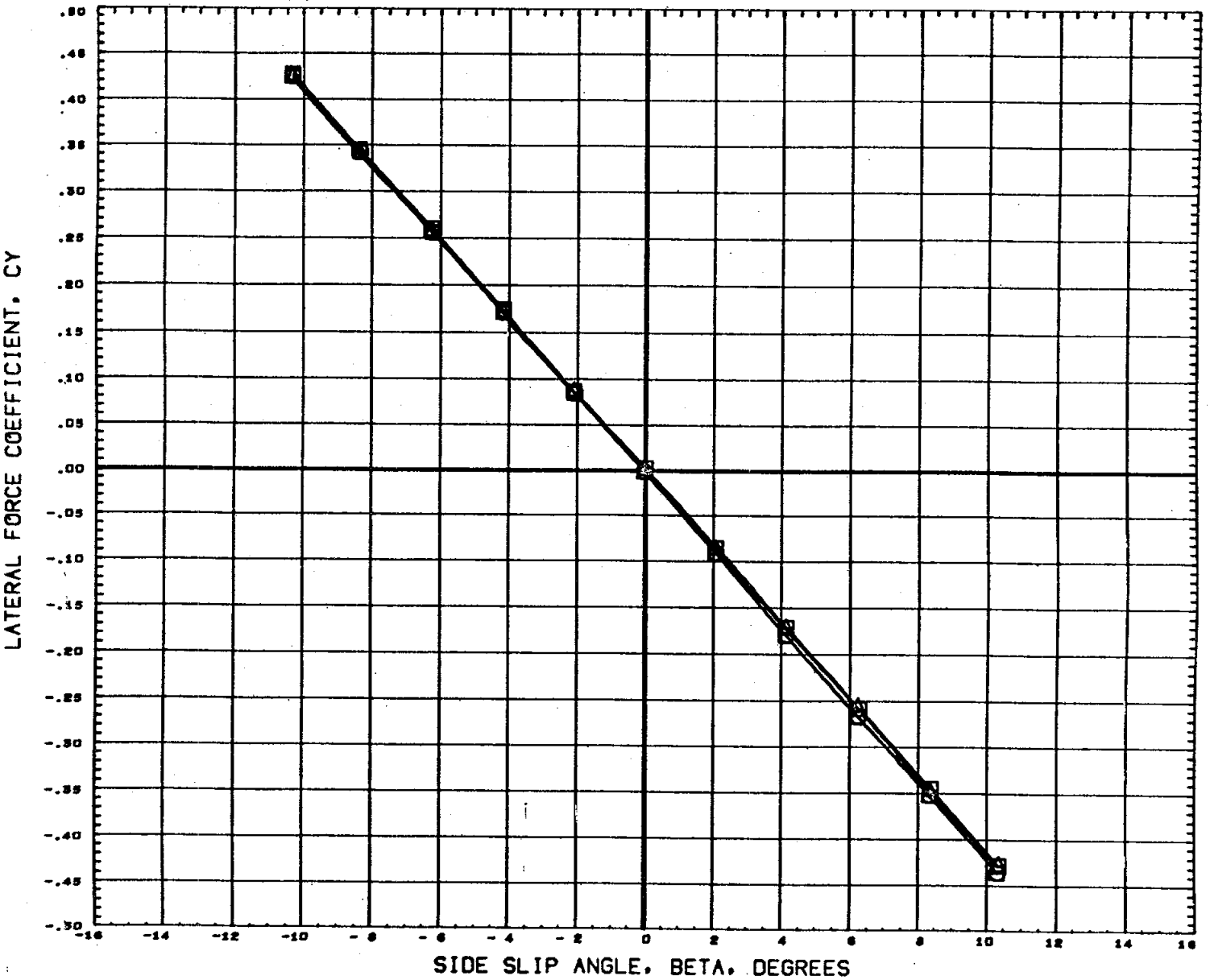
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

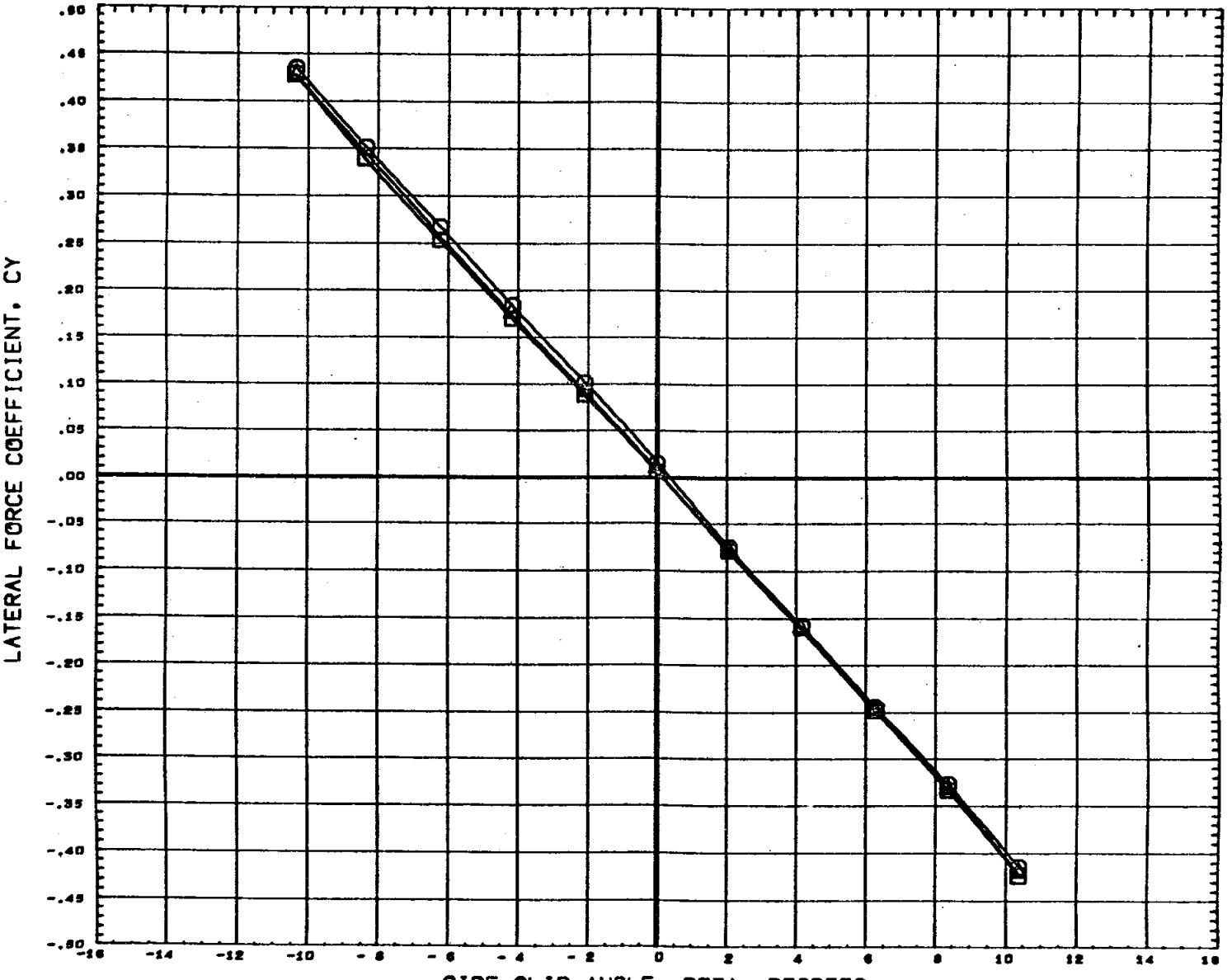
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



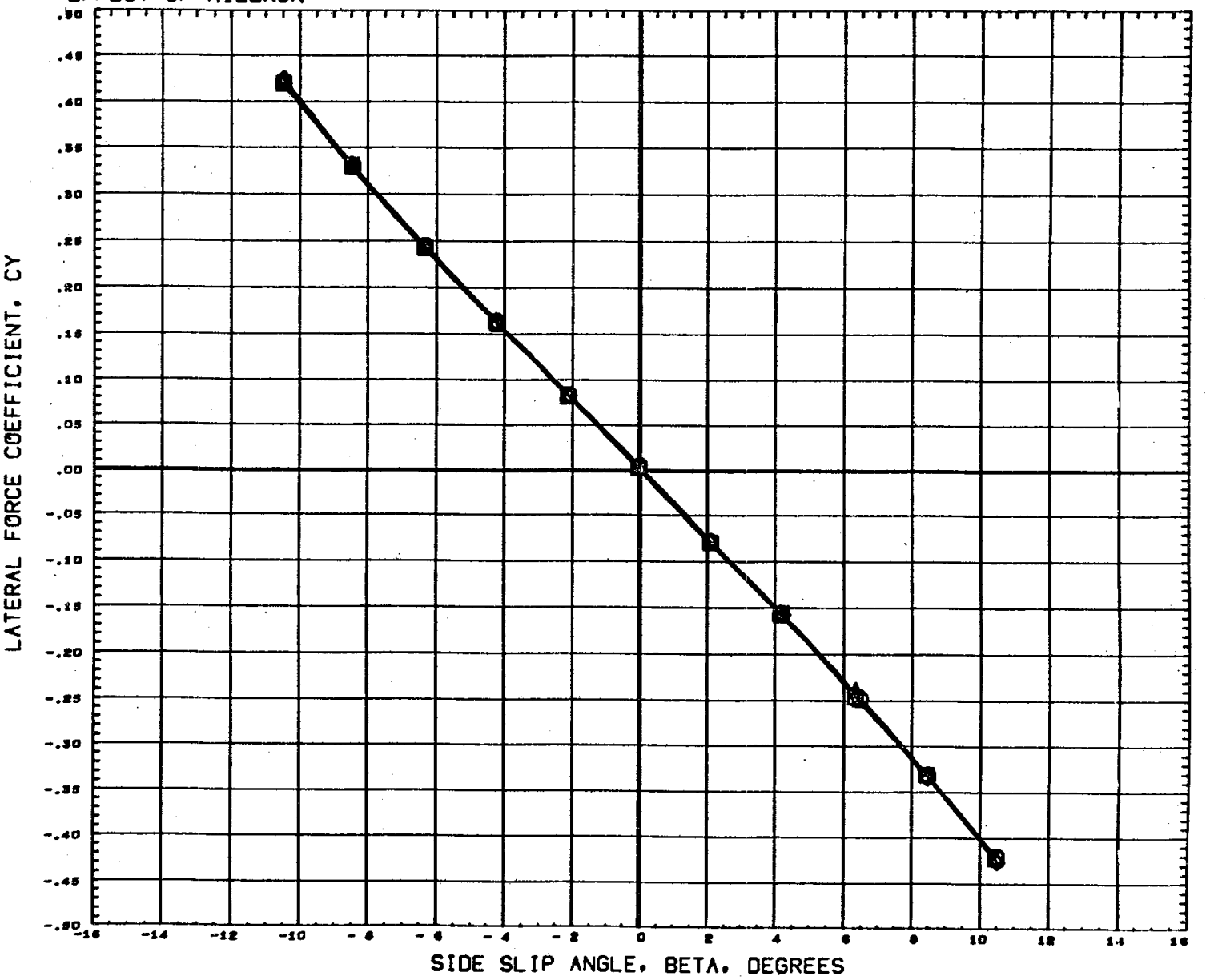
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON



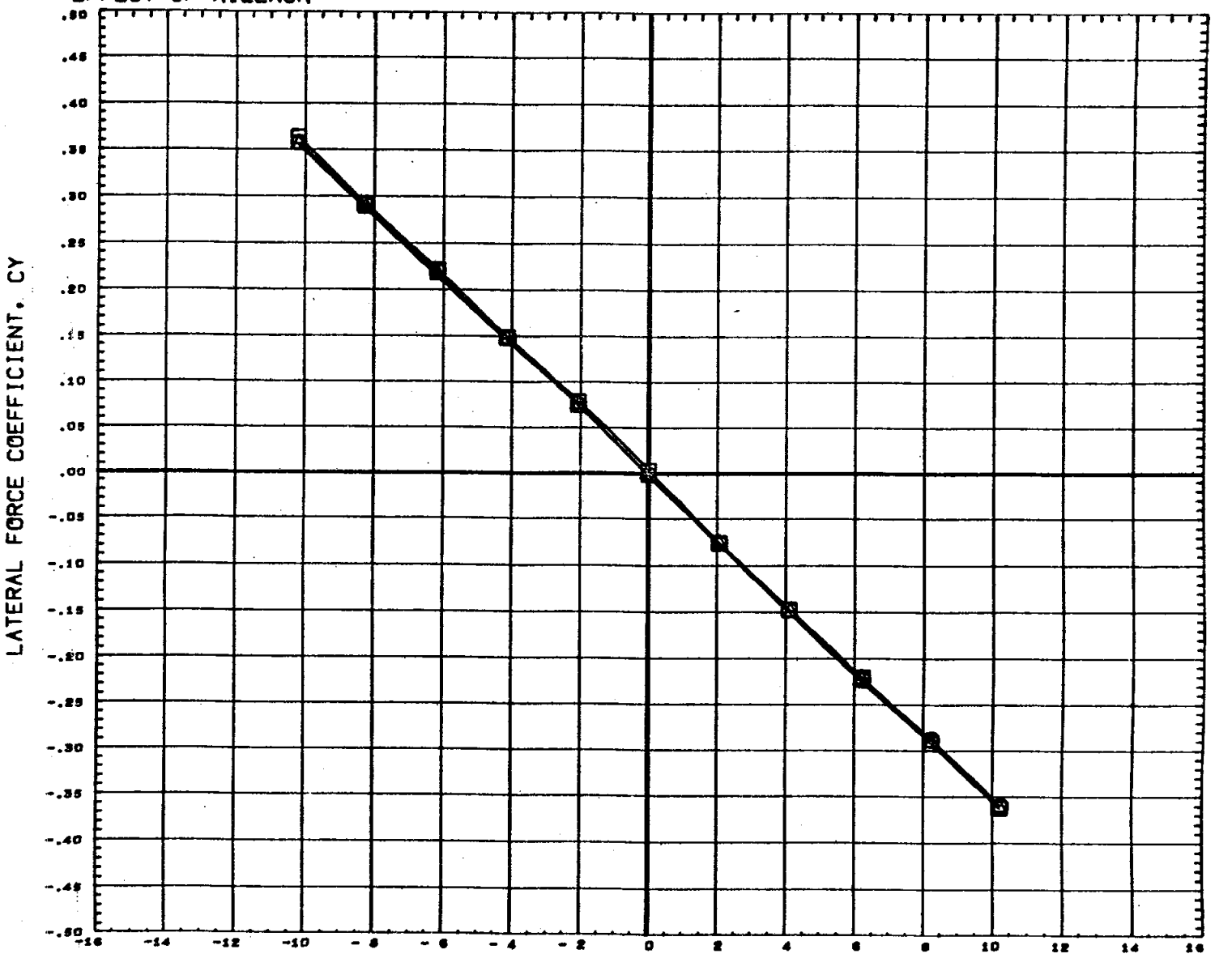
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(A77035)	◇	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)
(A77019)	□	M556(IA1) NAR ATP BL LV (O1) (T1) (S1)

PHI	ORBINC	RUDDER	AILRON
90.000	0.000	0.000	10.000
90.000	0.000	0.000	0.000
90.000	-1.200	0.000	10.000
90.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF AILERON



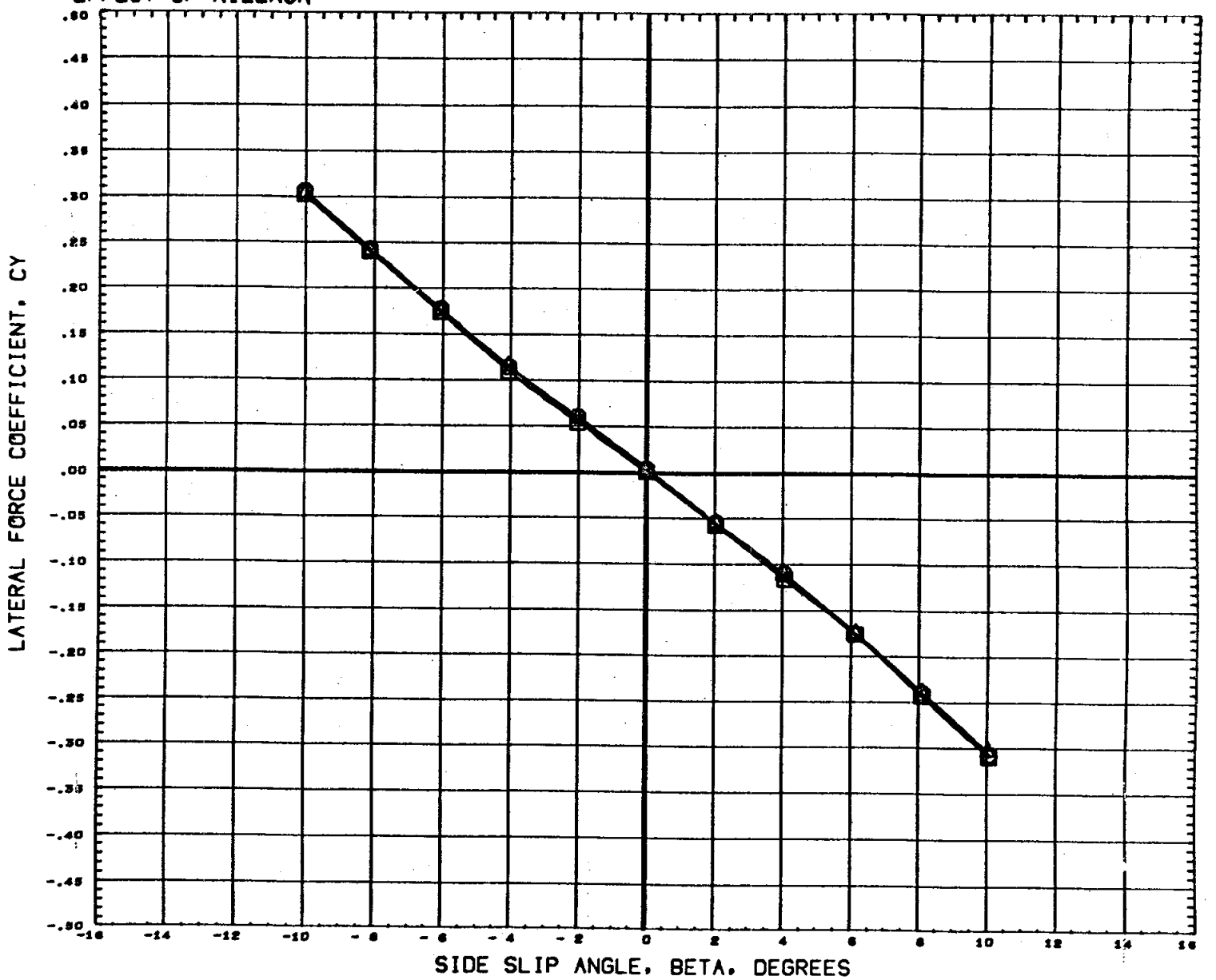
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



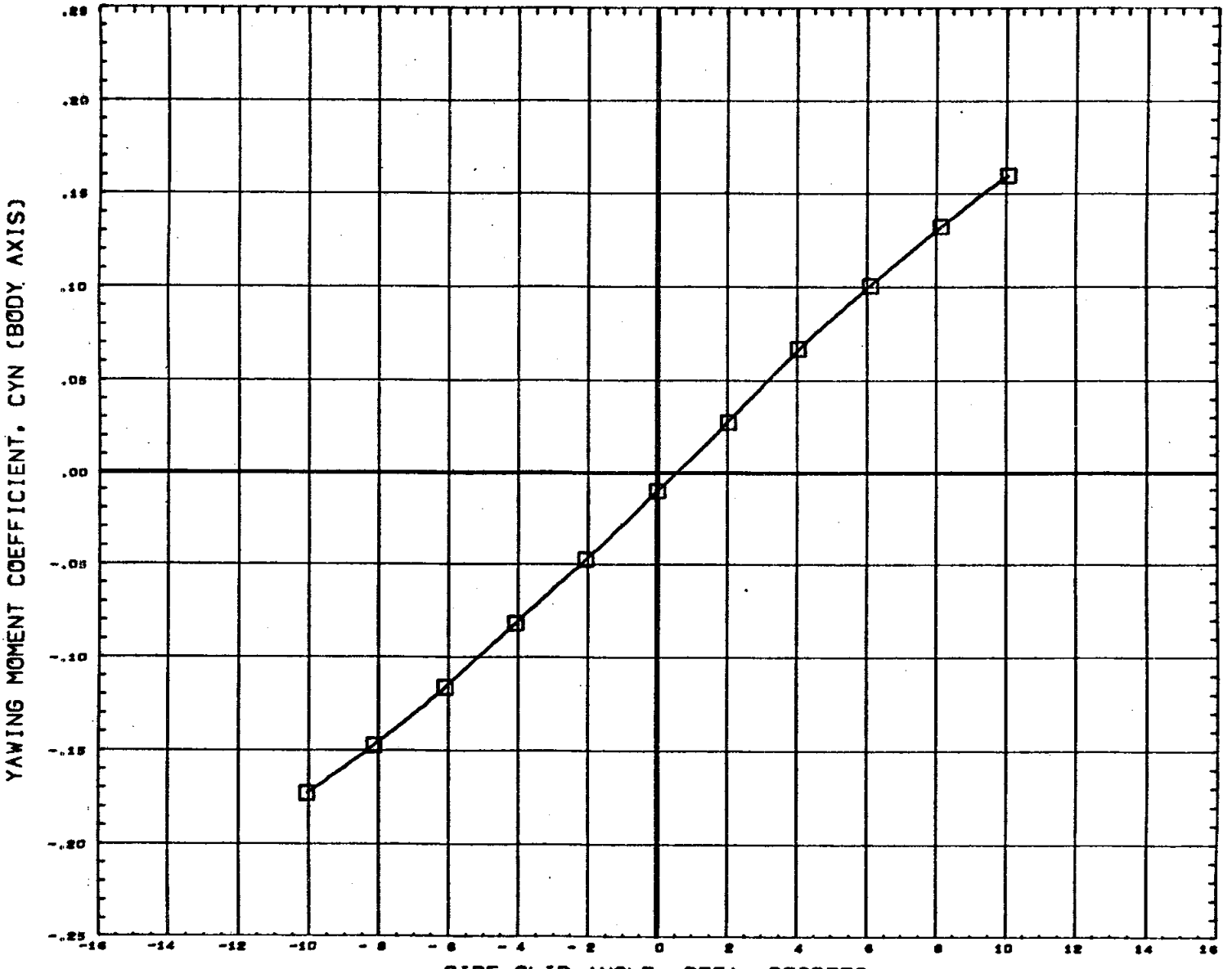
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON

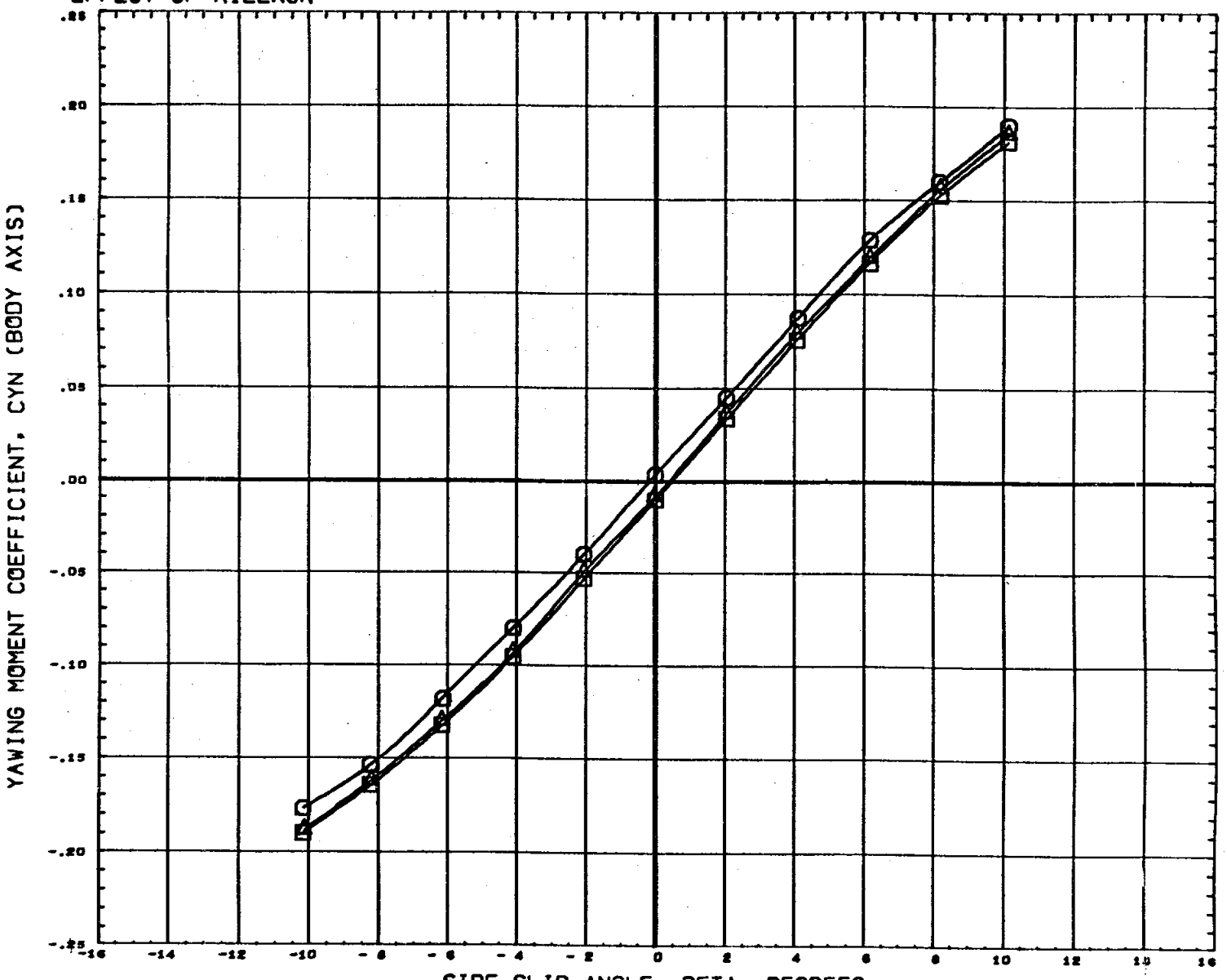


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77015)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(A77035)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)		M558(IA1) NAR ATP BL LV (01)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



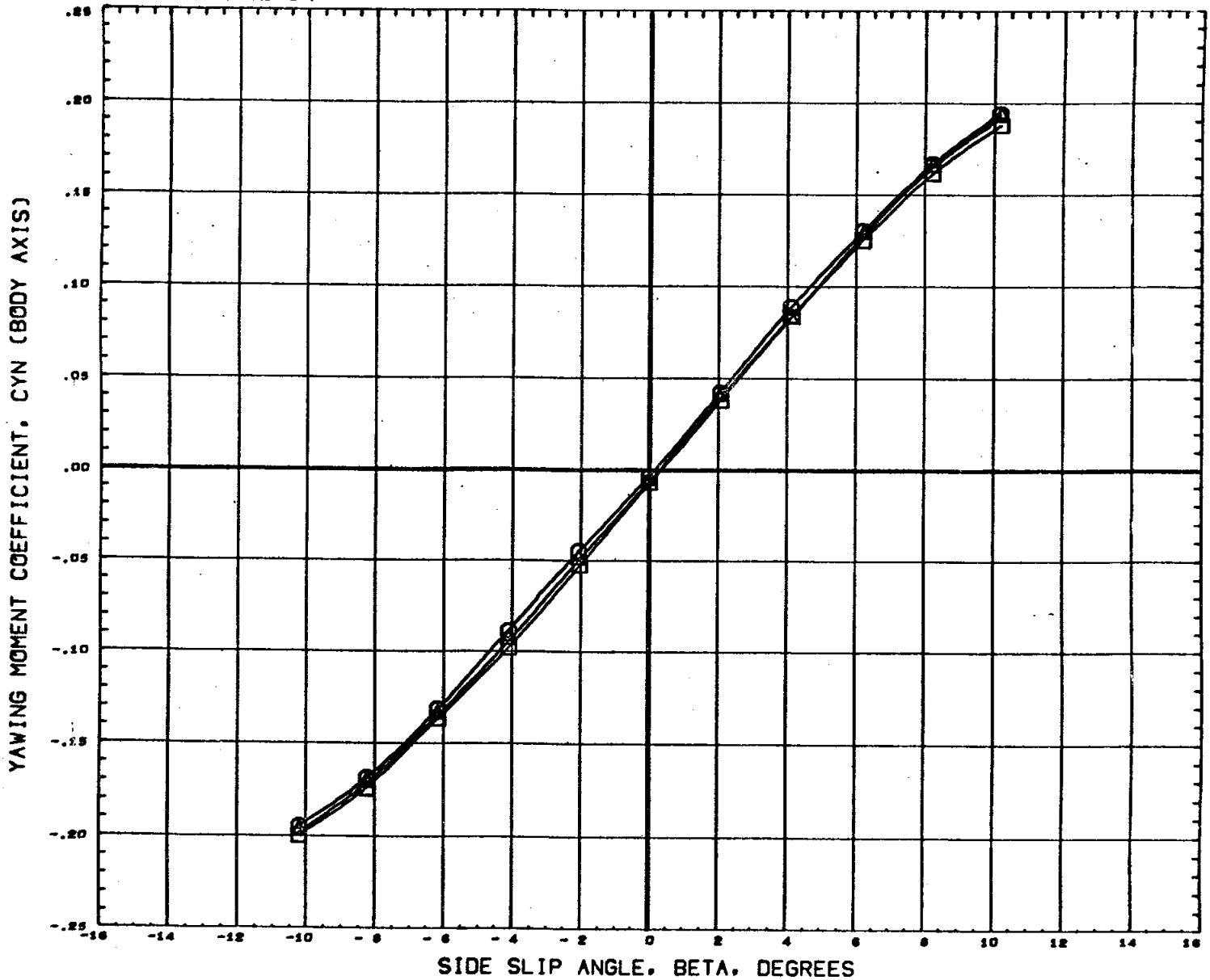
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



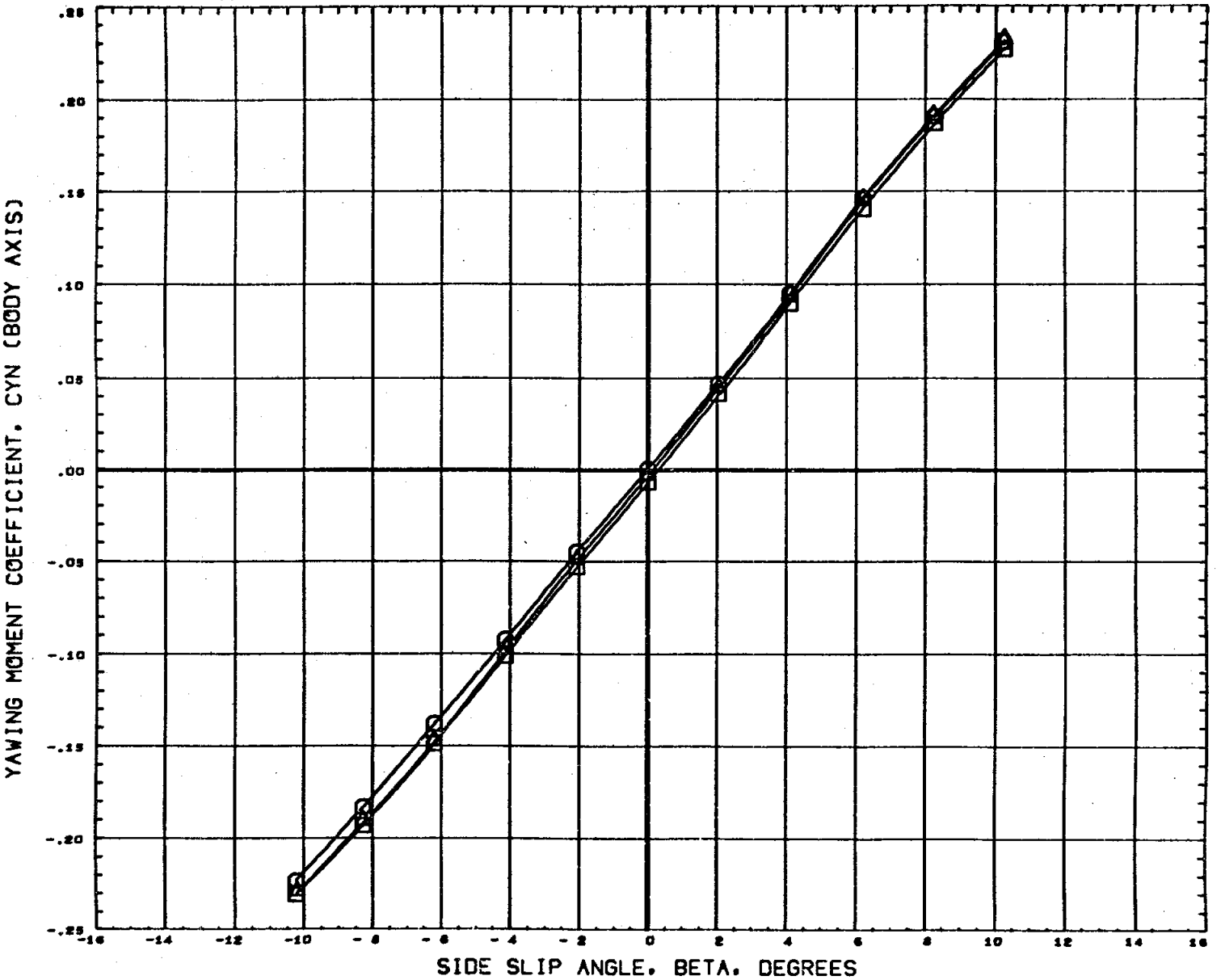
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON

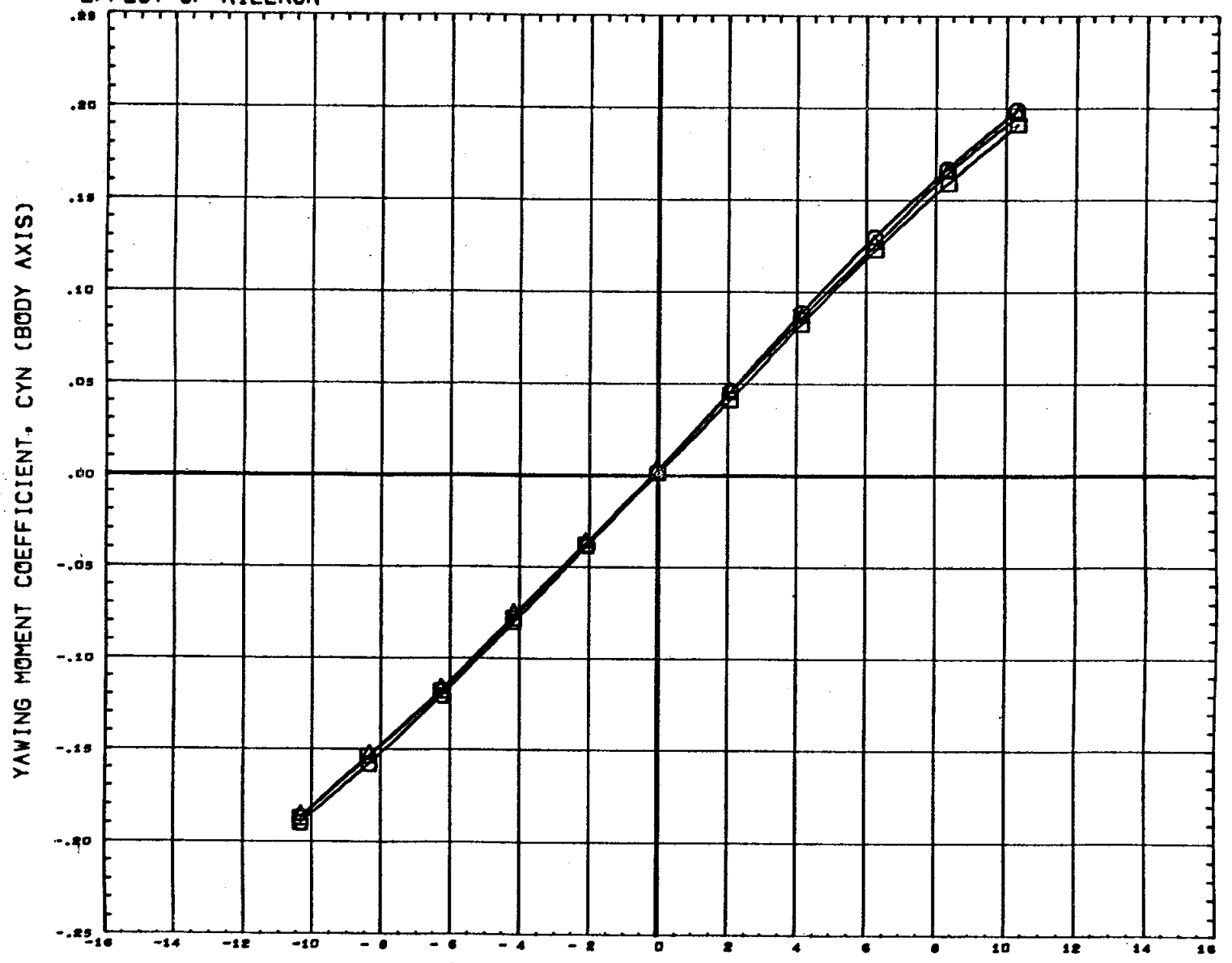


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



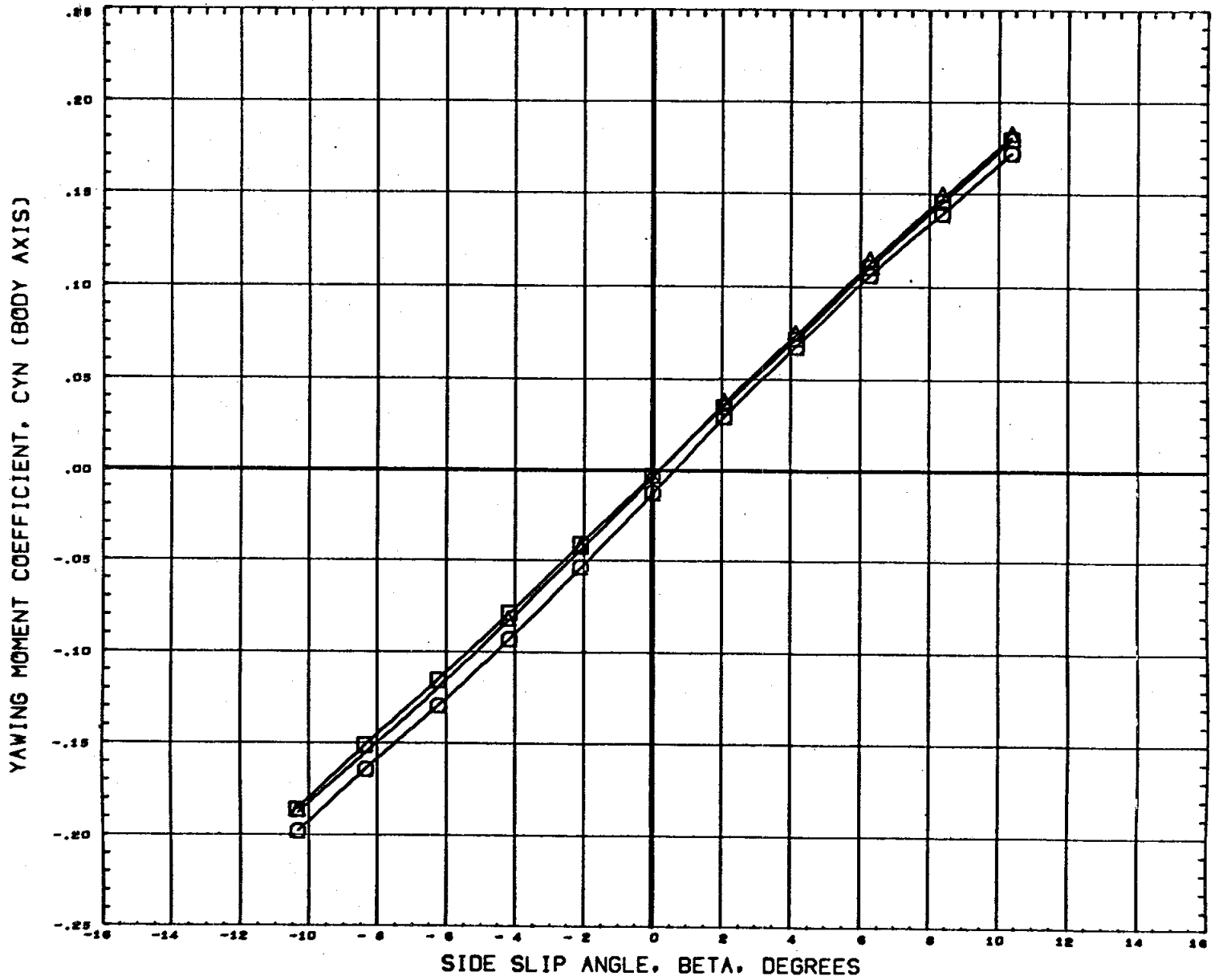
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



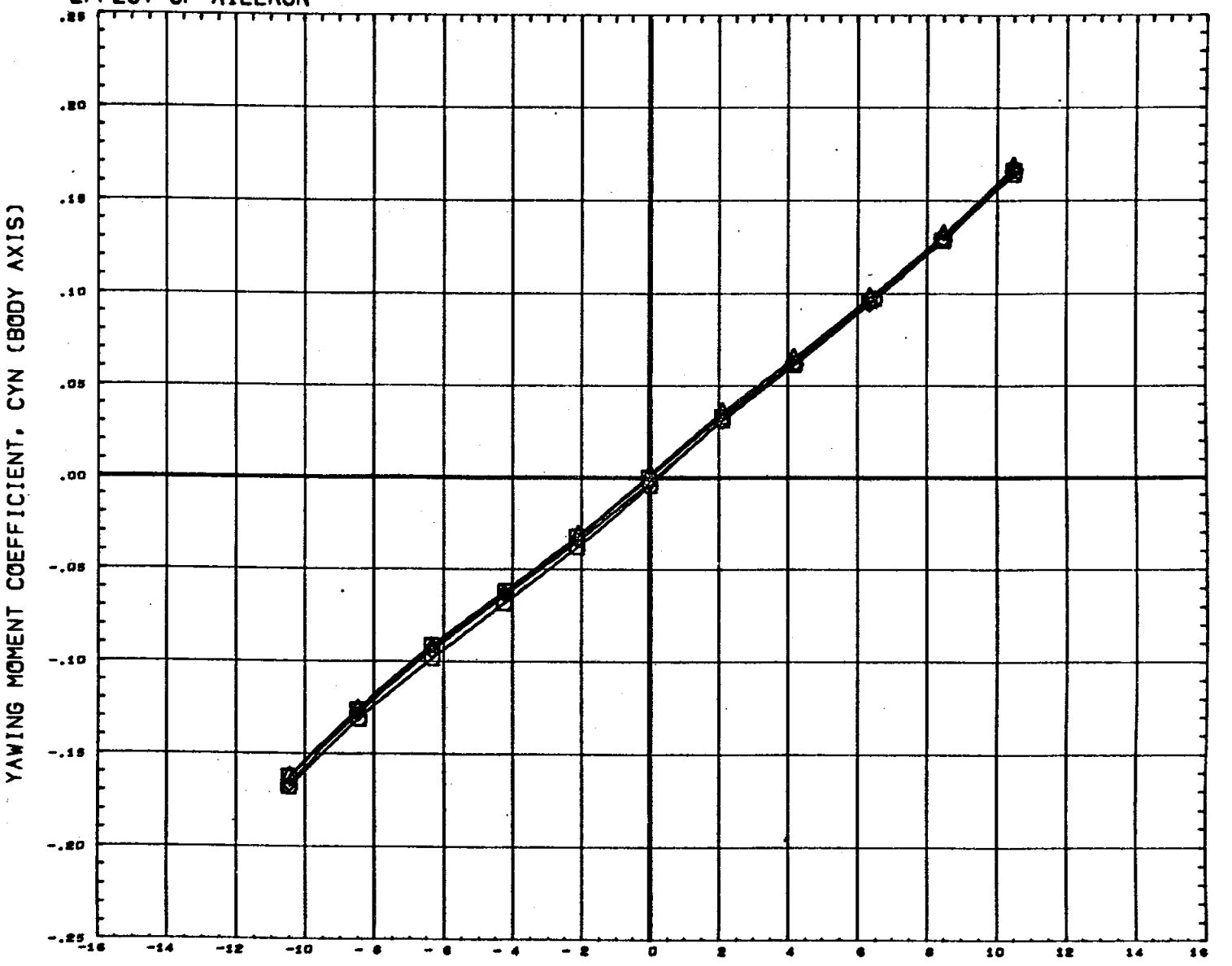
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON

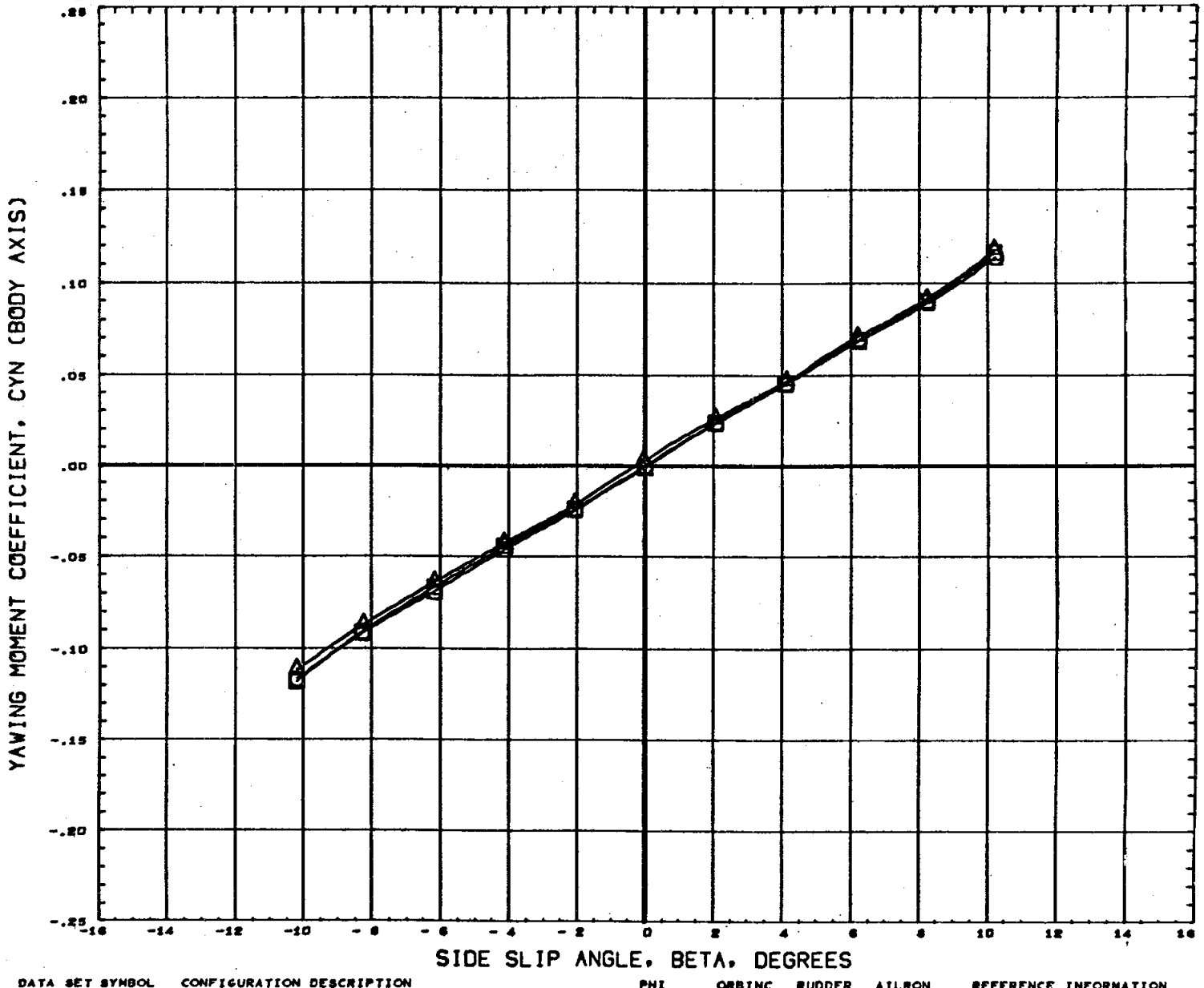


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77015)	⊠	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77035)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF AILERON

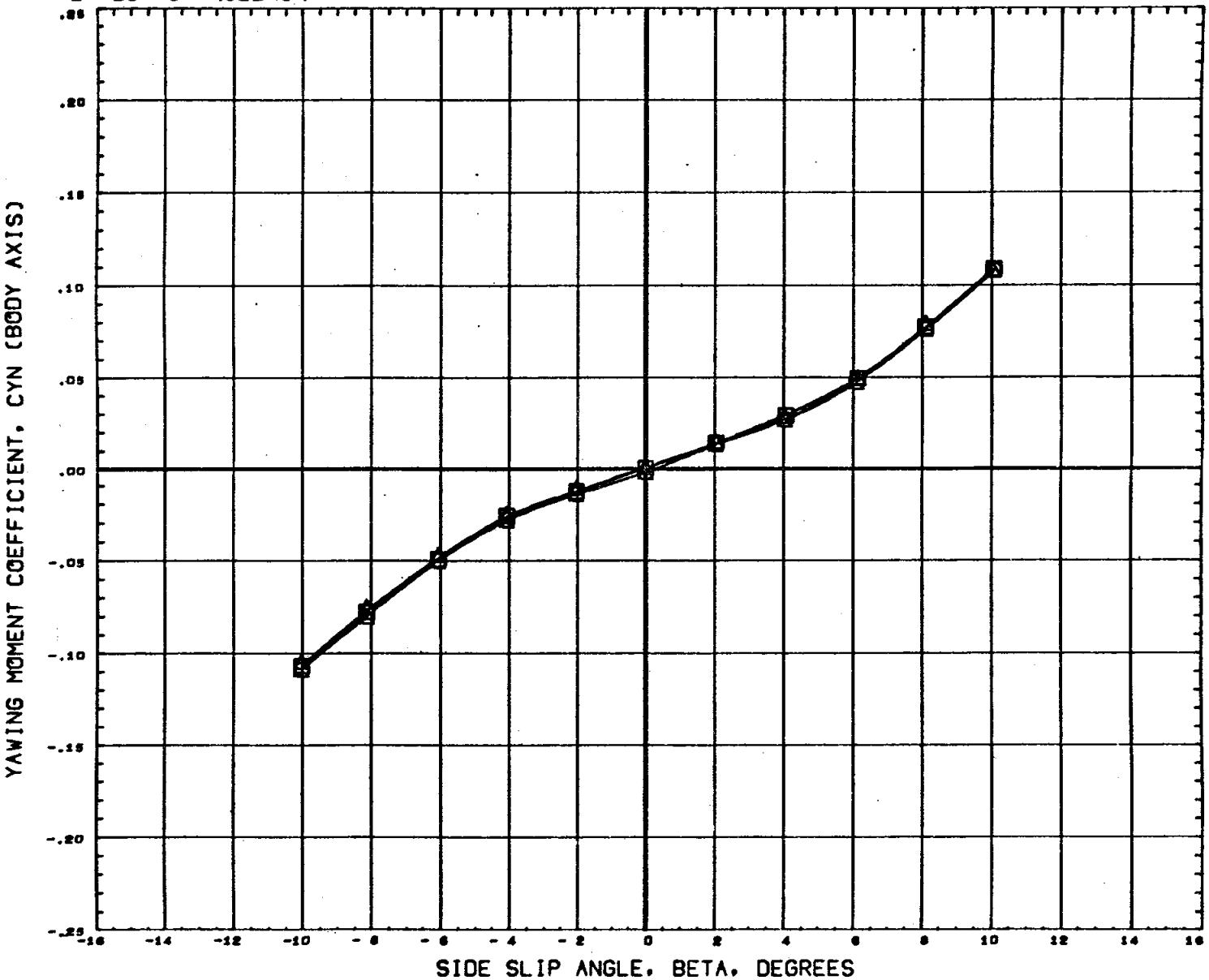


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	3.3120	IN.
BREF	3.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON

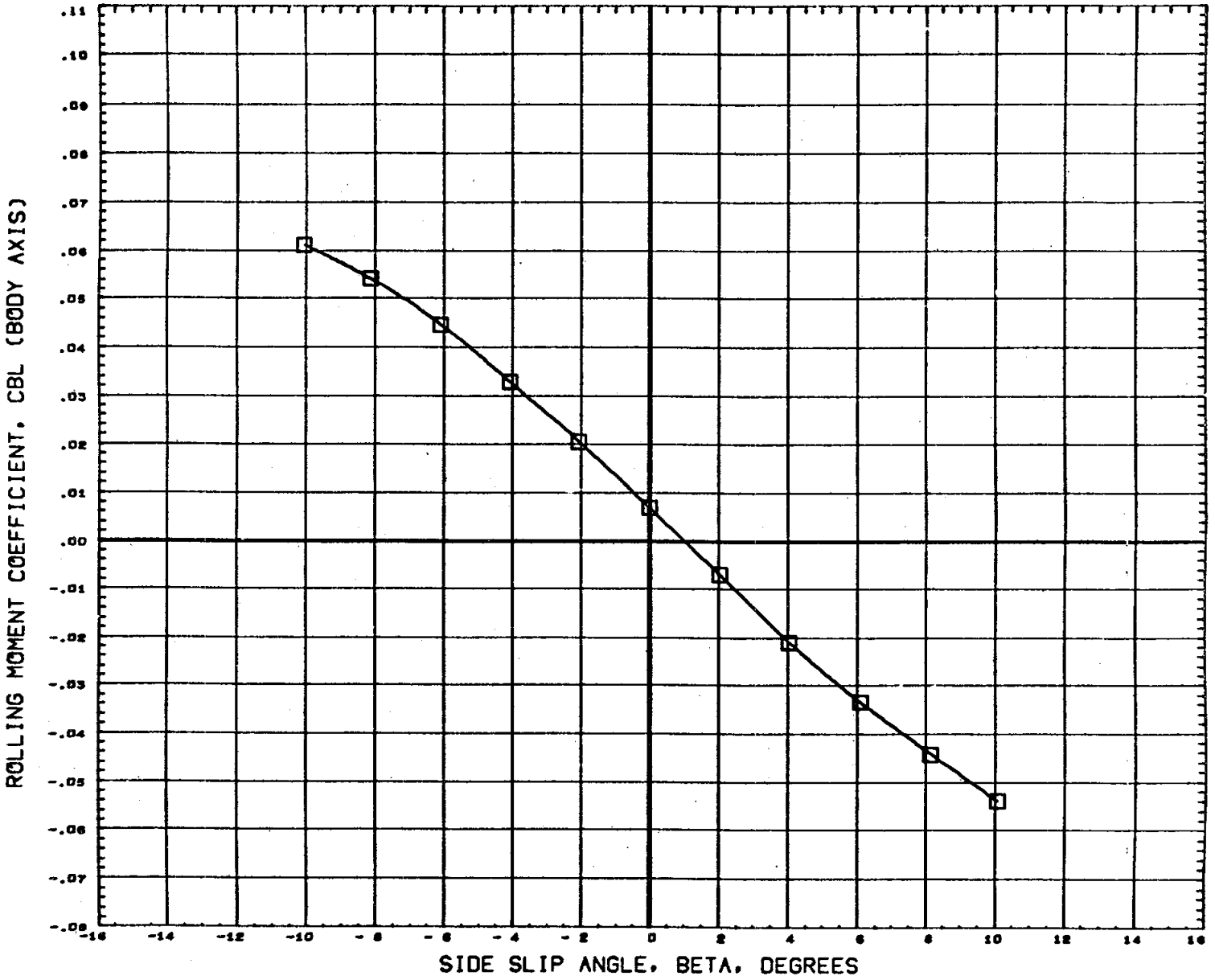


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON

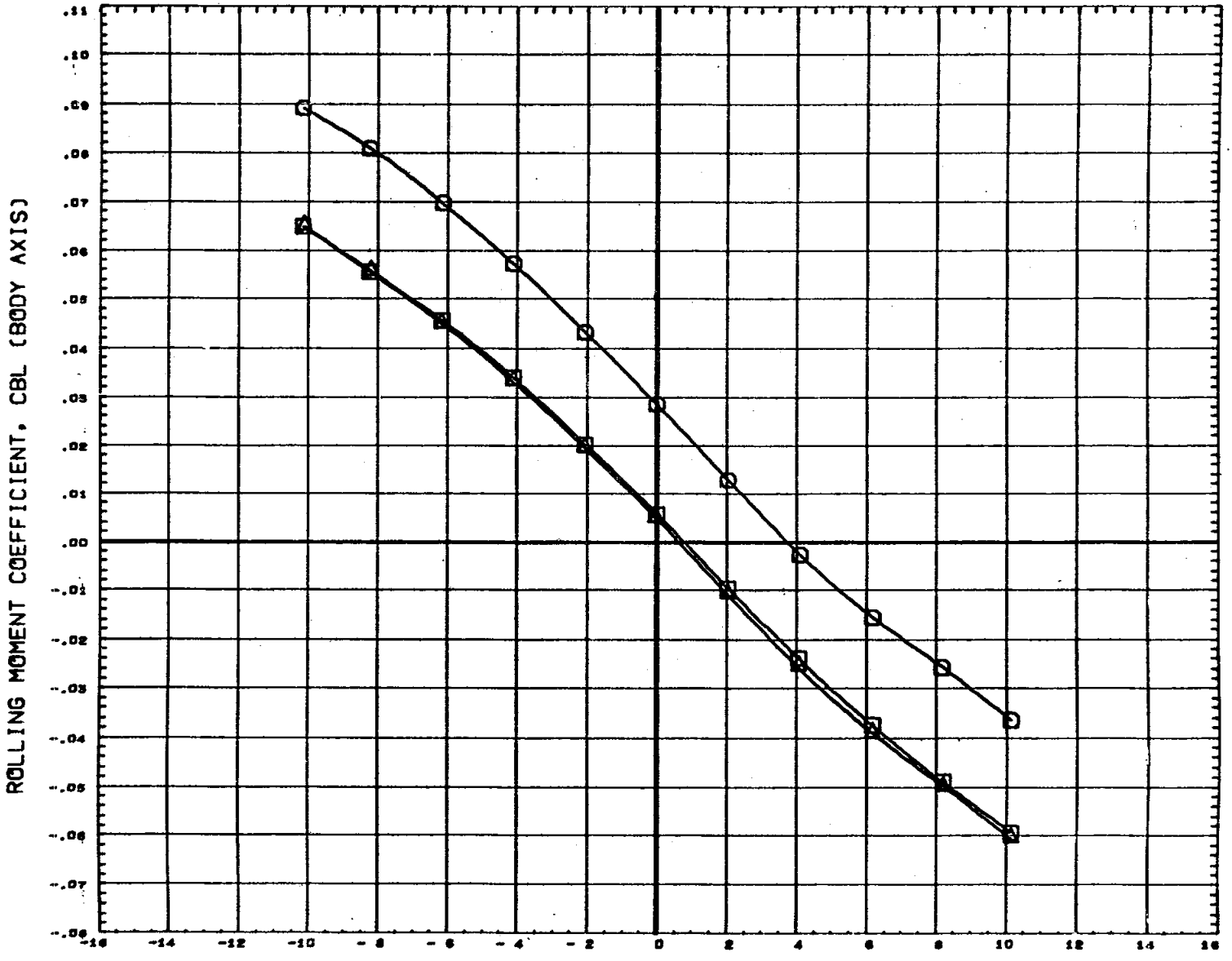


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77015)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



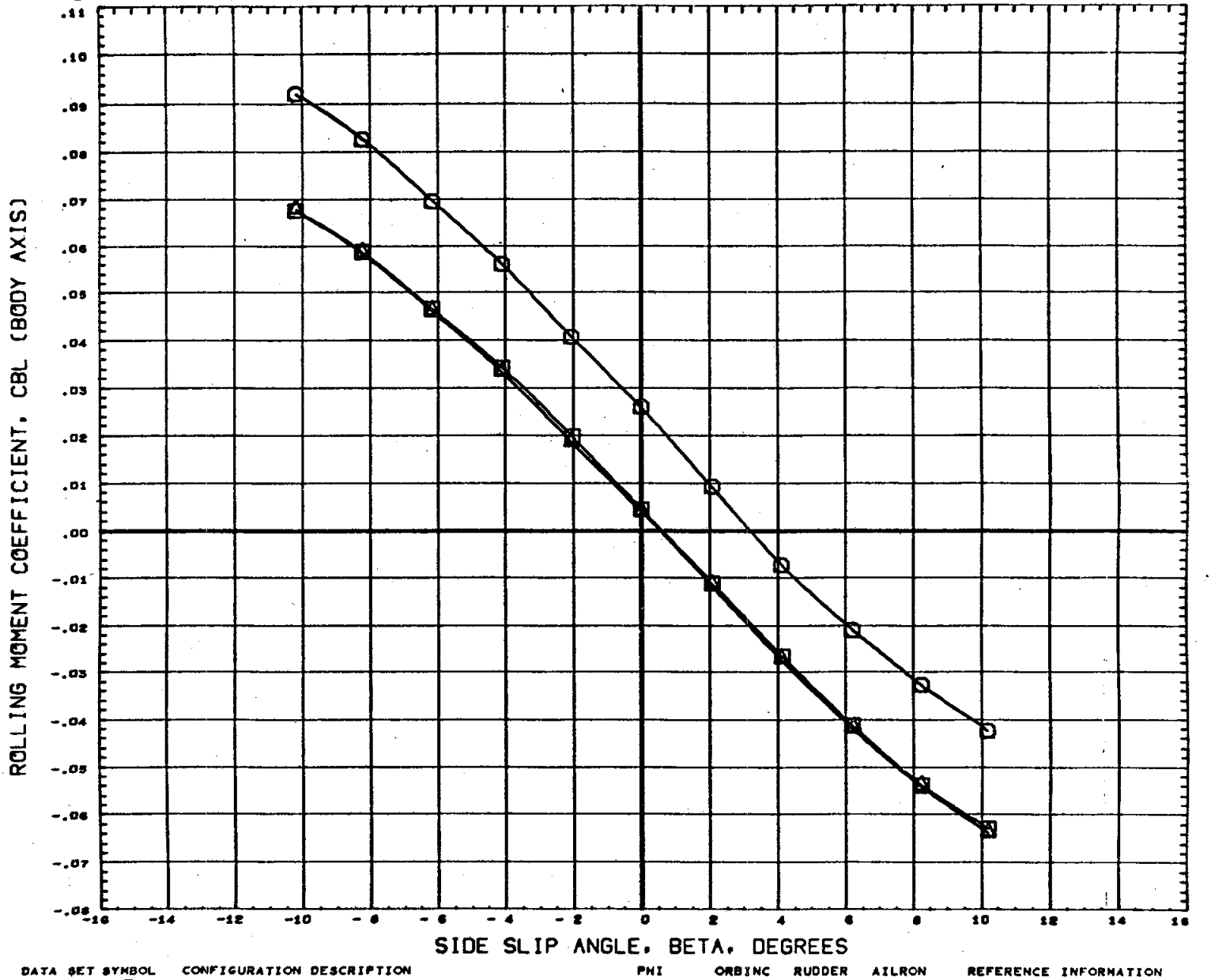
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON

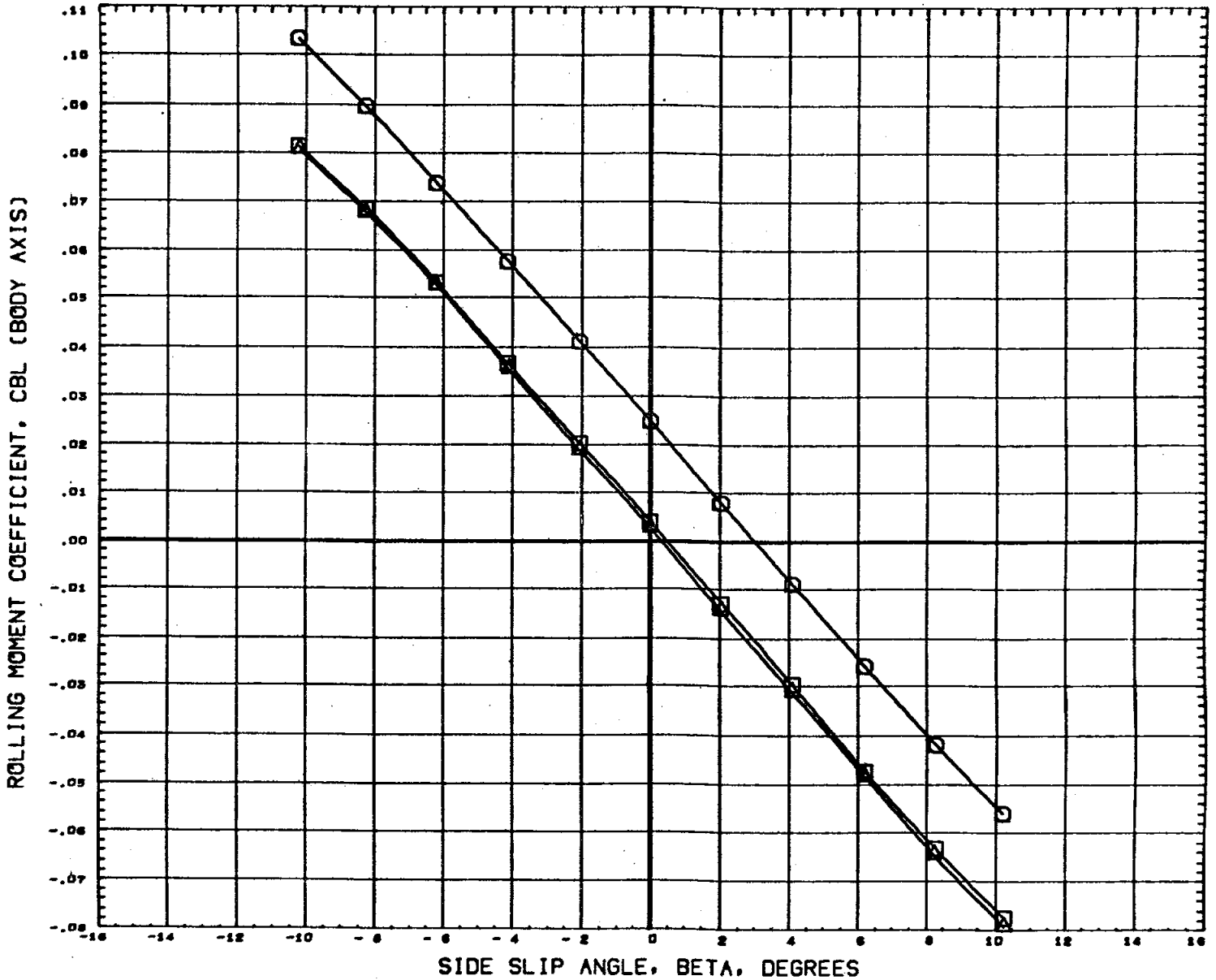


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77015)	⊠	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



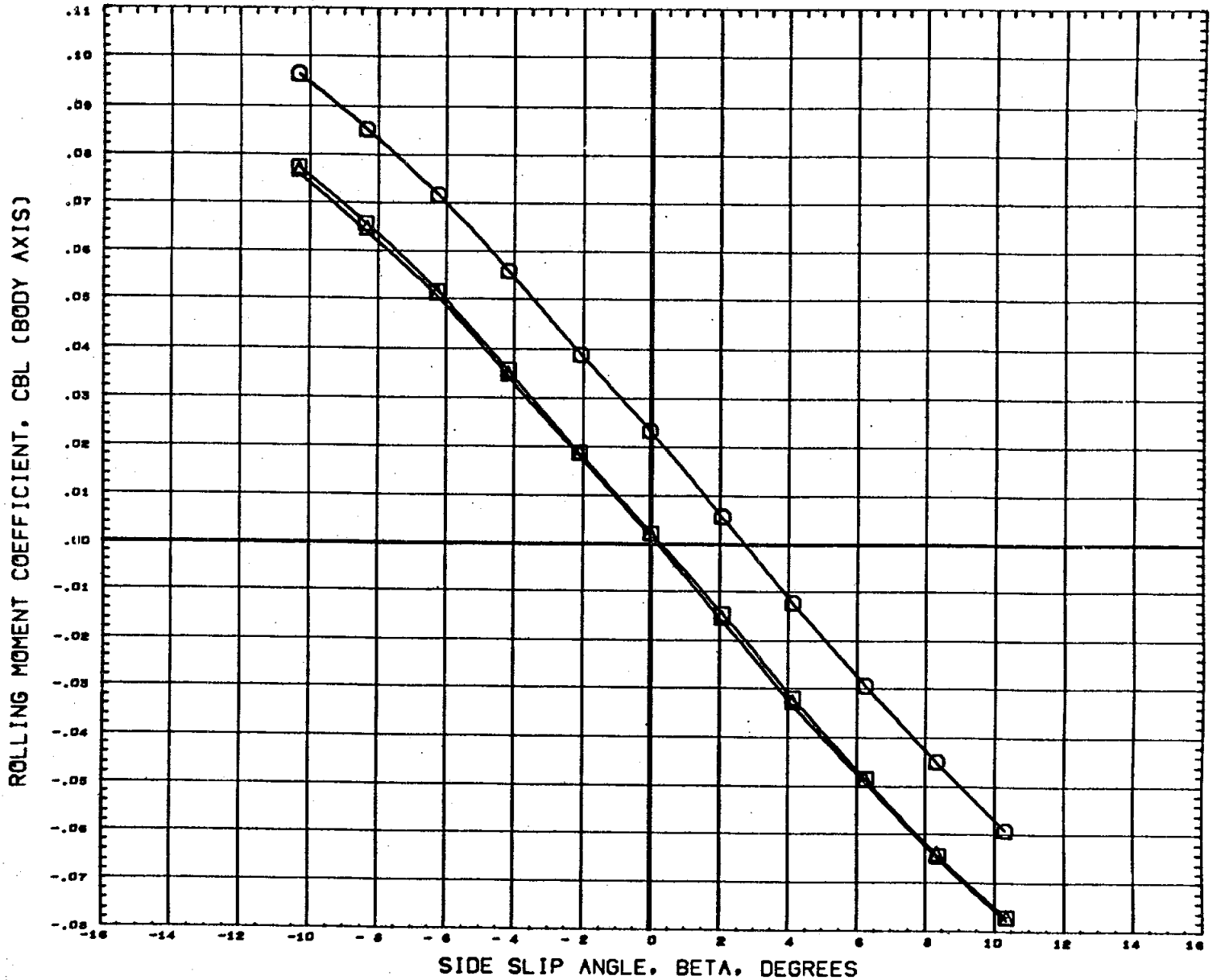
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.0200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



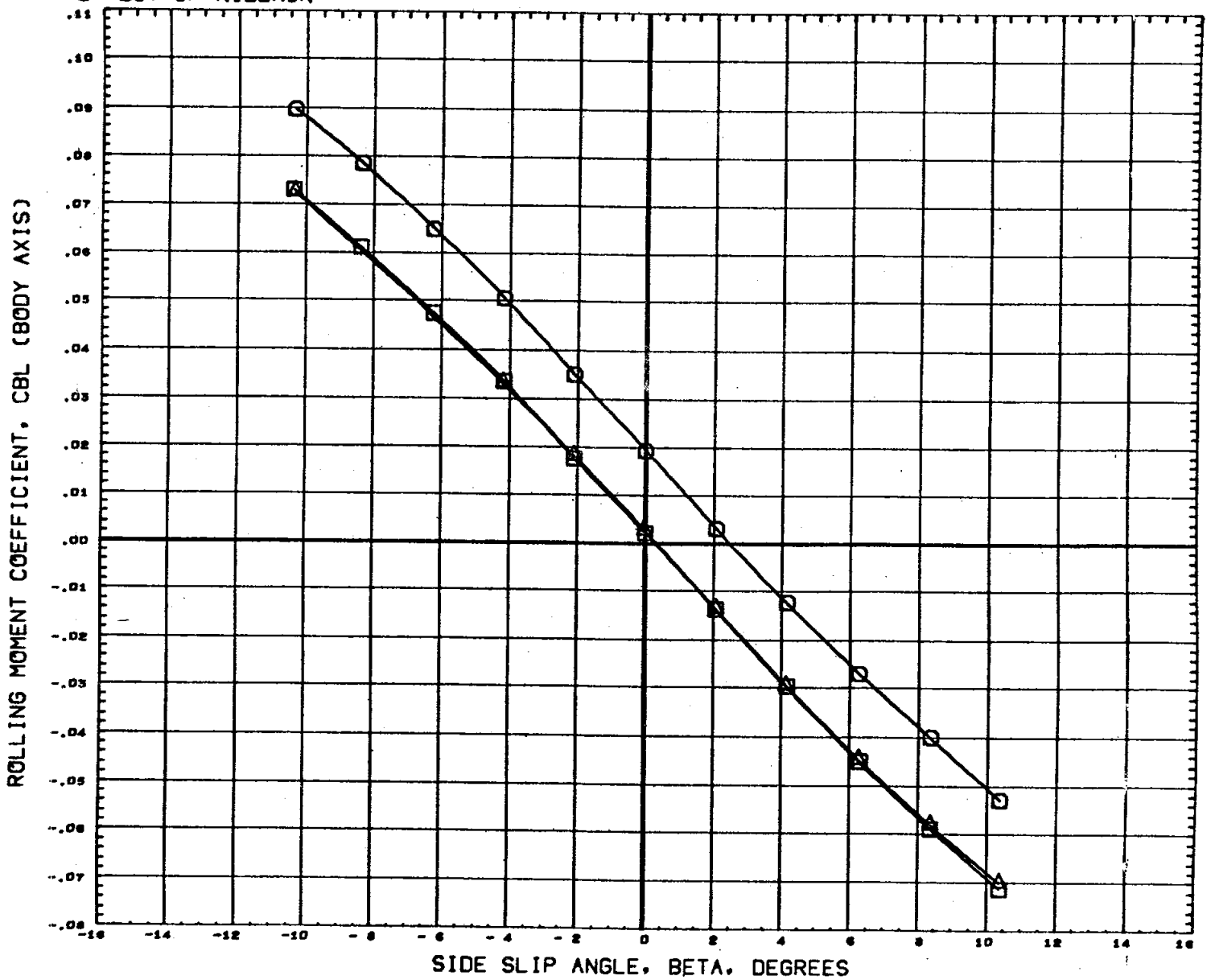
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



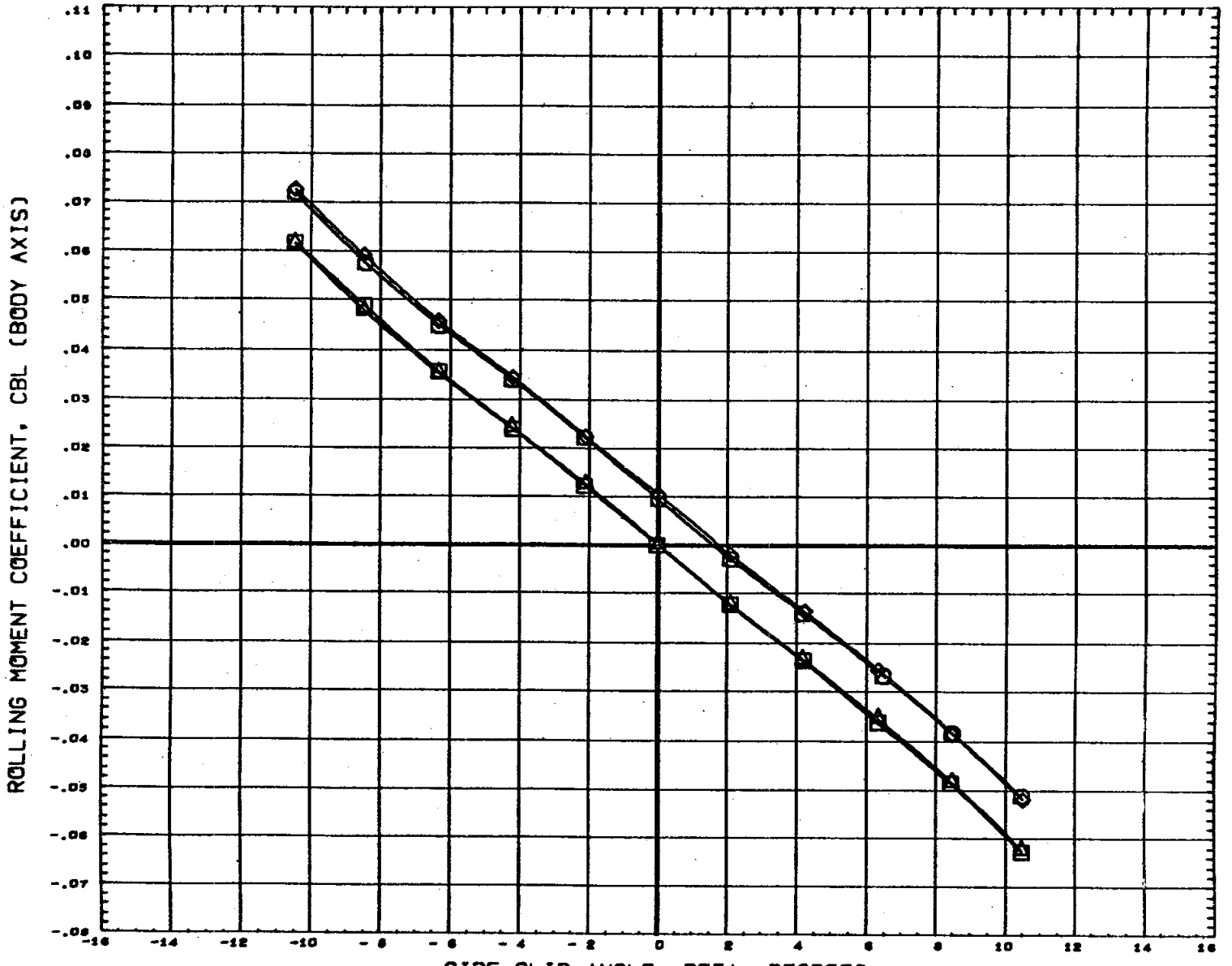
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON



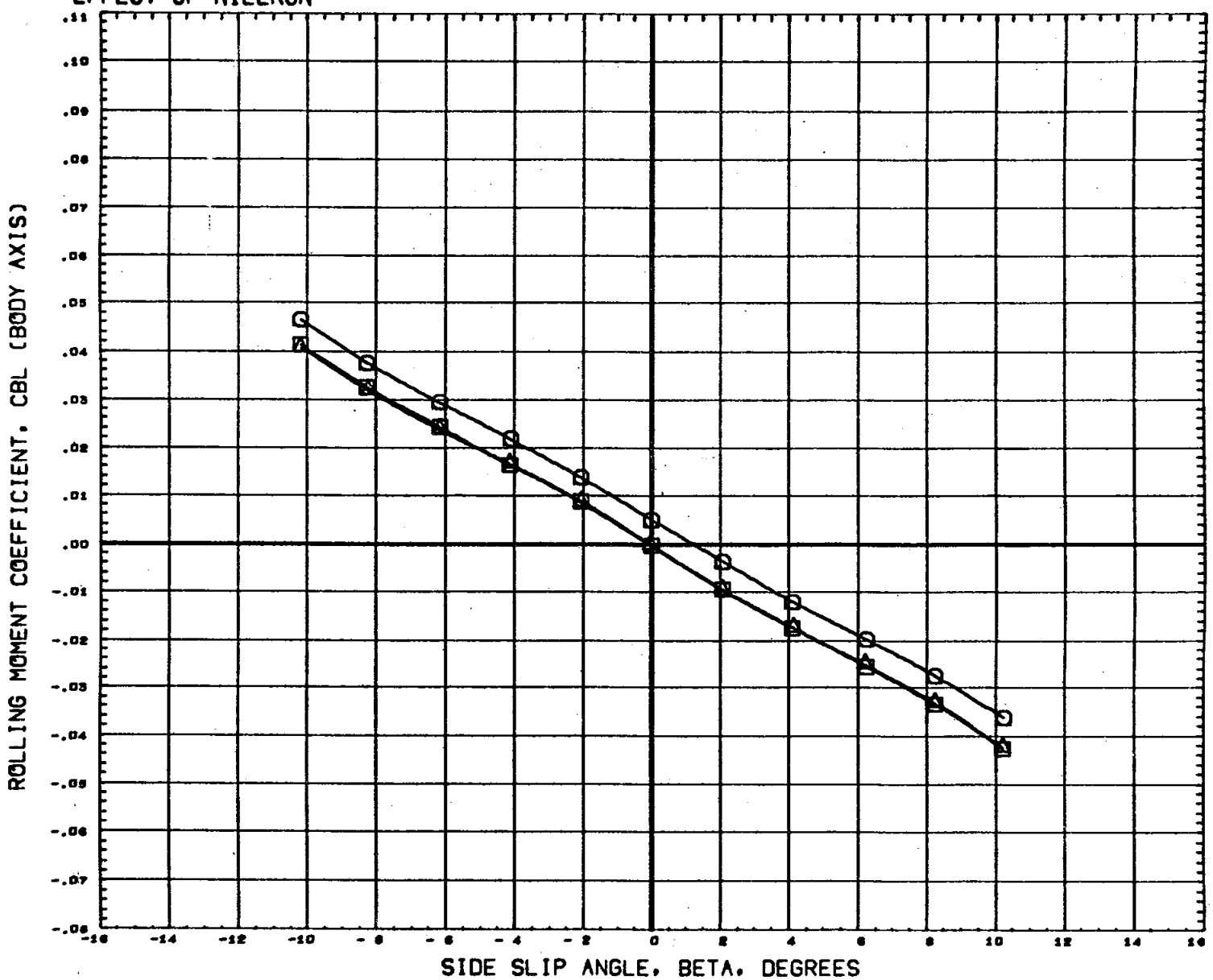
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.97

EFFECT OF AILERON

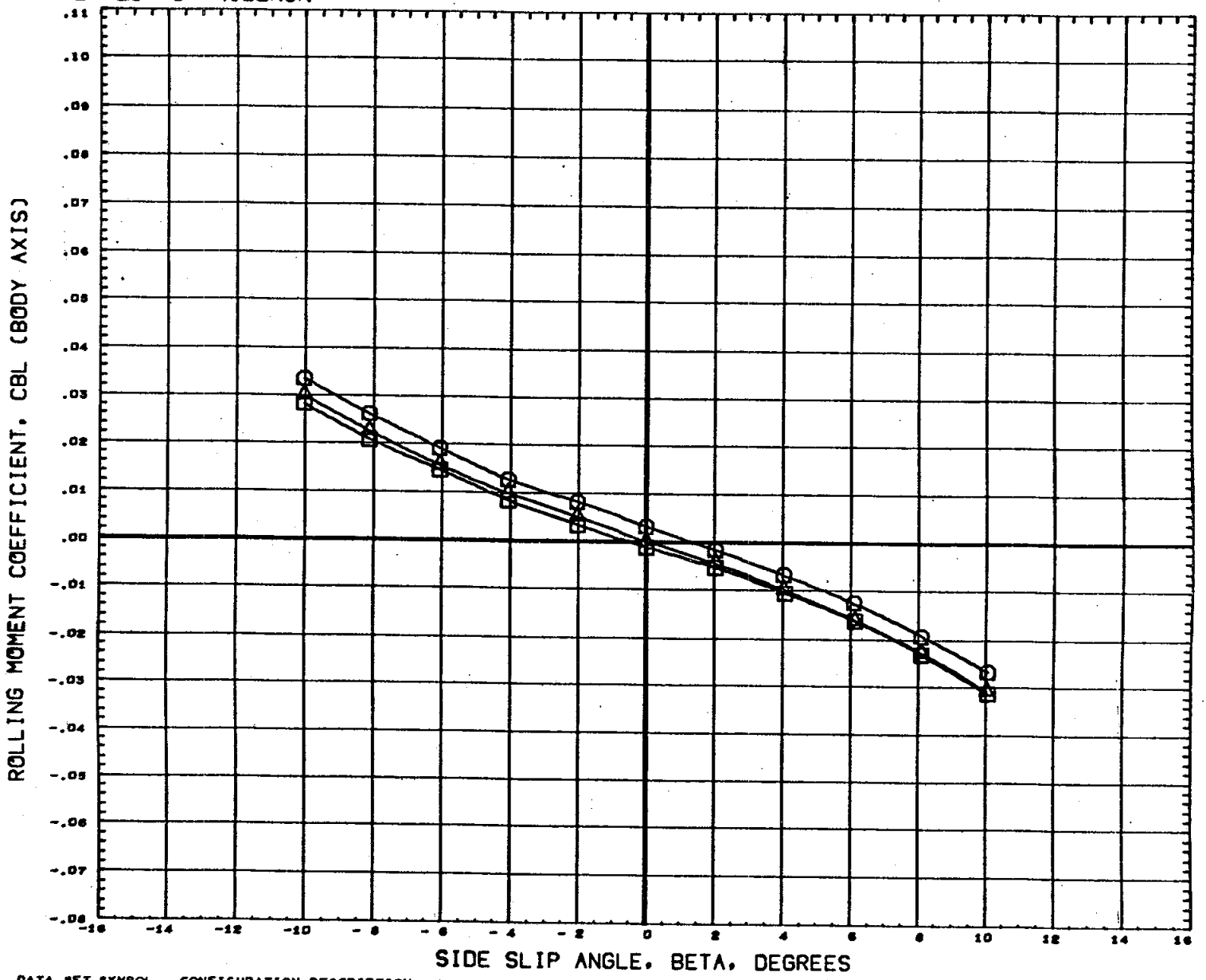


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



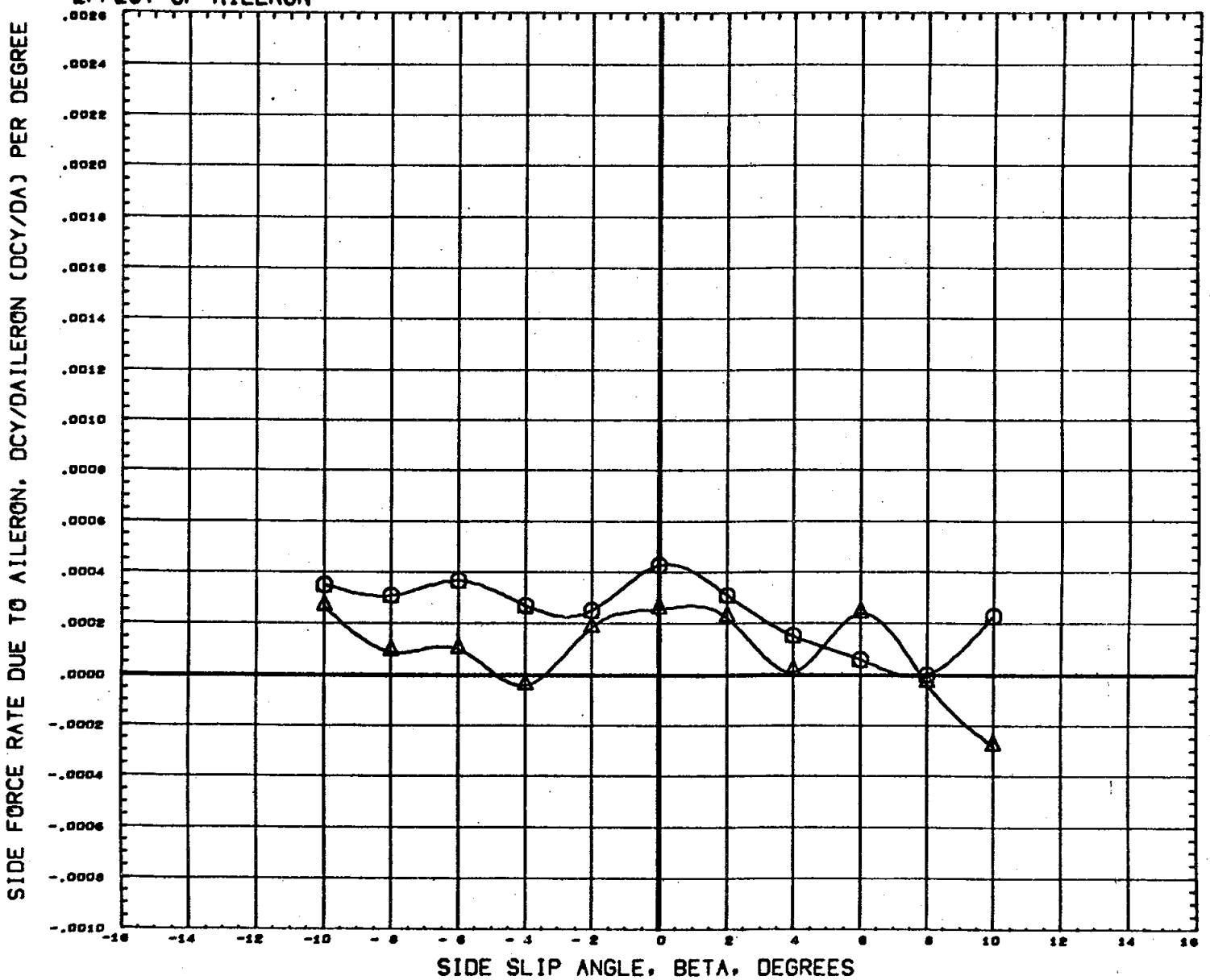
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77025)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77035)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77019)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON

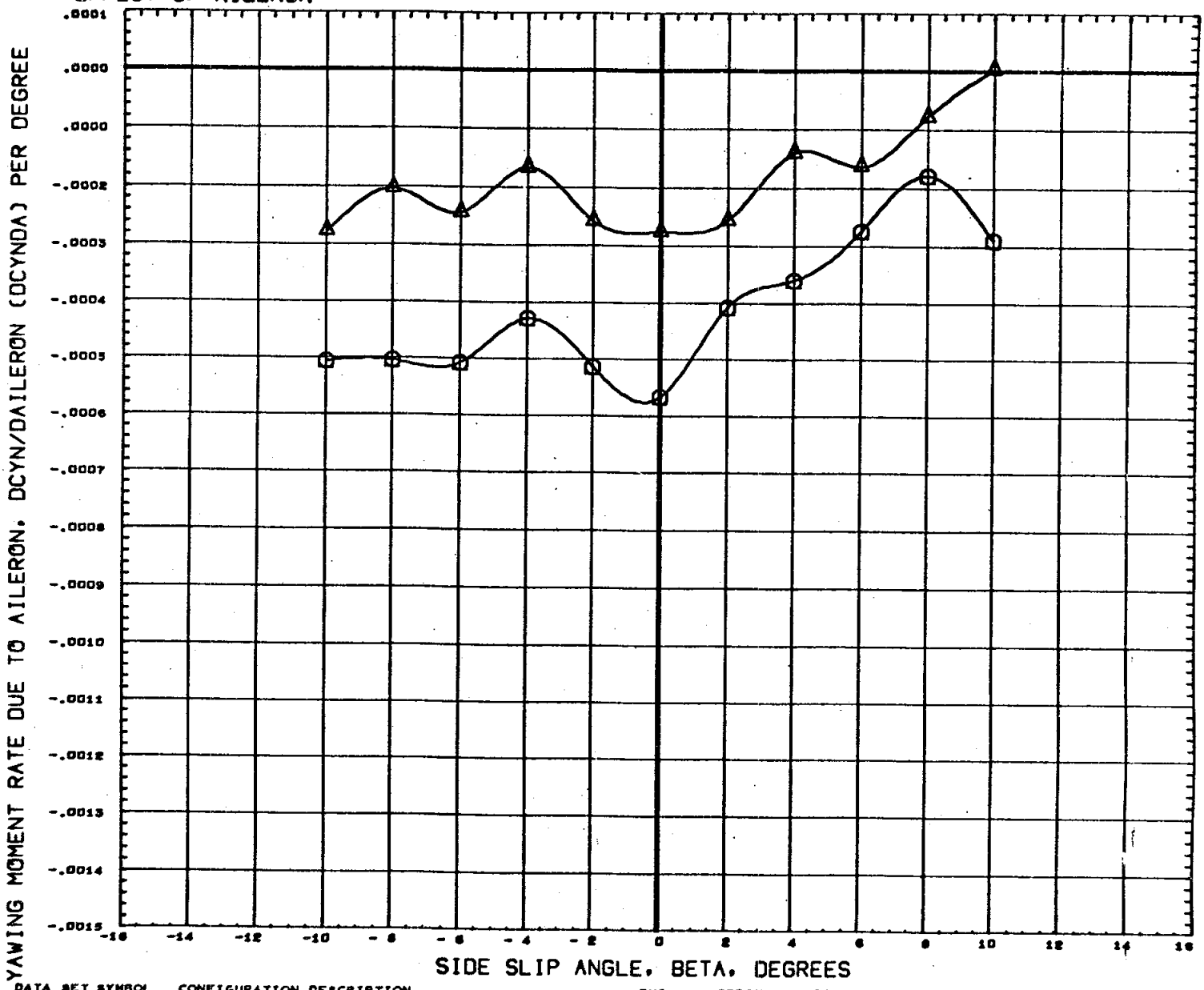


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C25)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(F77C35)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



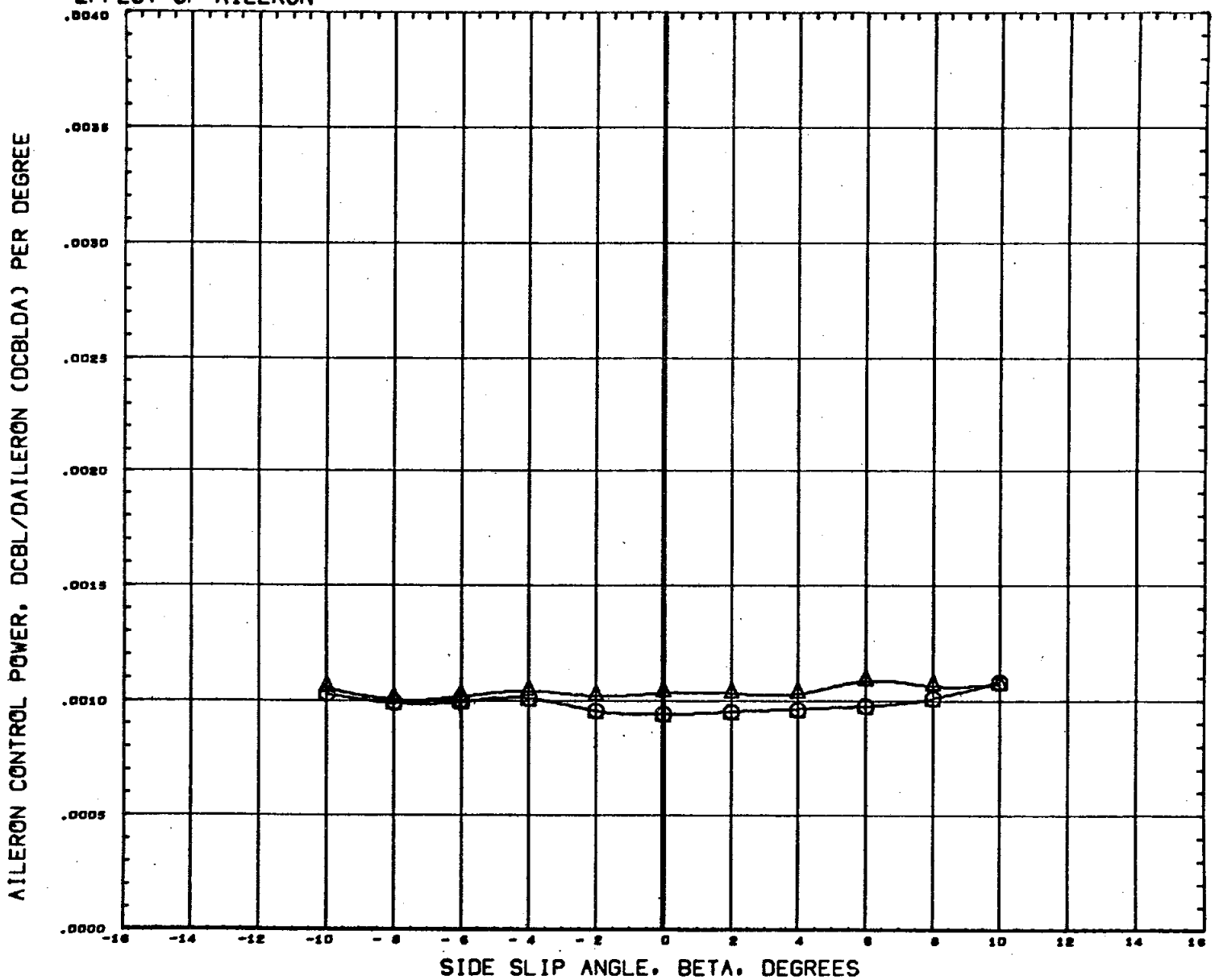
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F77C25)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(F77C35)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	DA
80.000	0.000	0.000	10.000
80.000	-1.200	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON

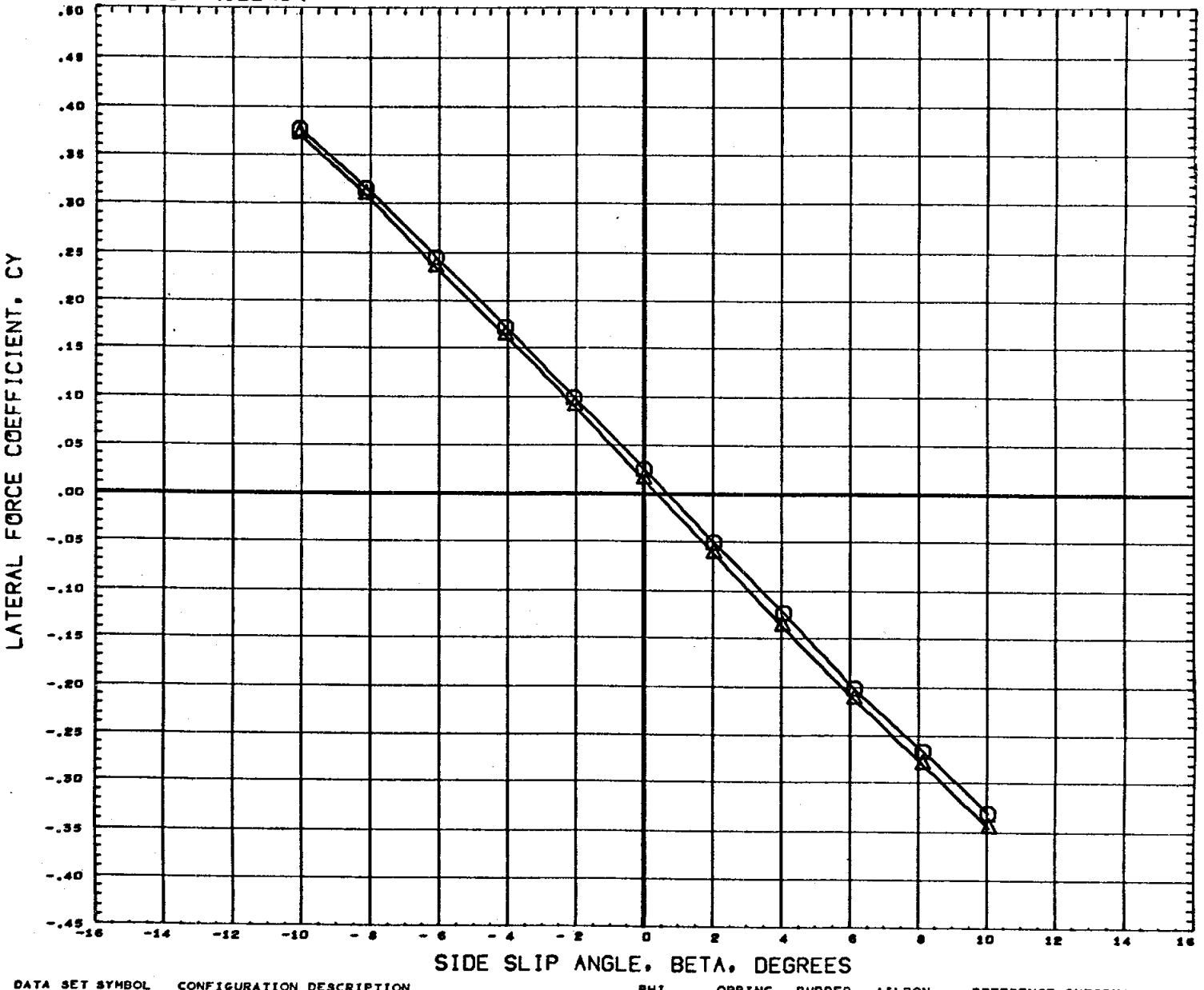


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(FY7C25)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(FY7C35)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



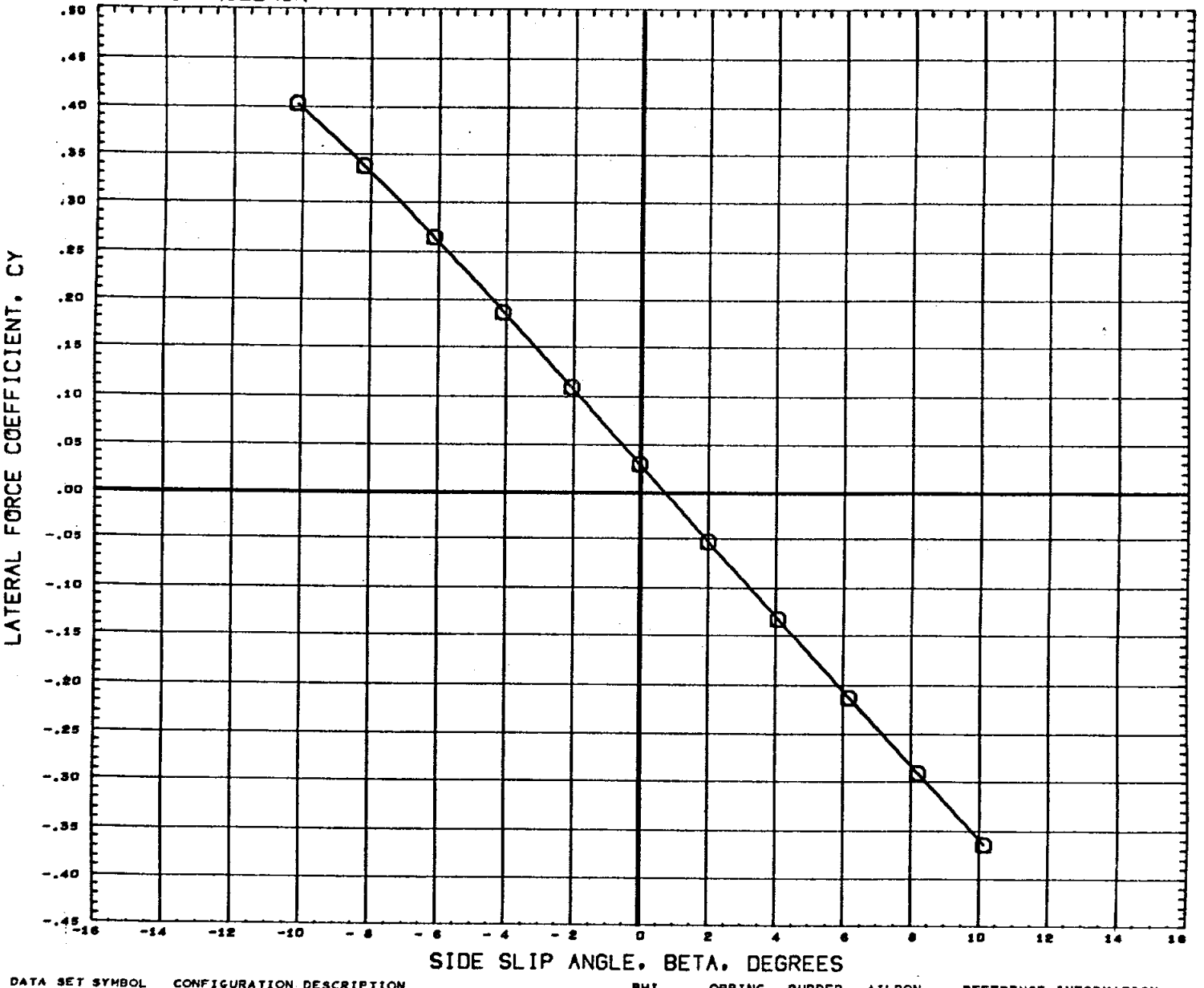
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77027)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(A77017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



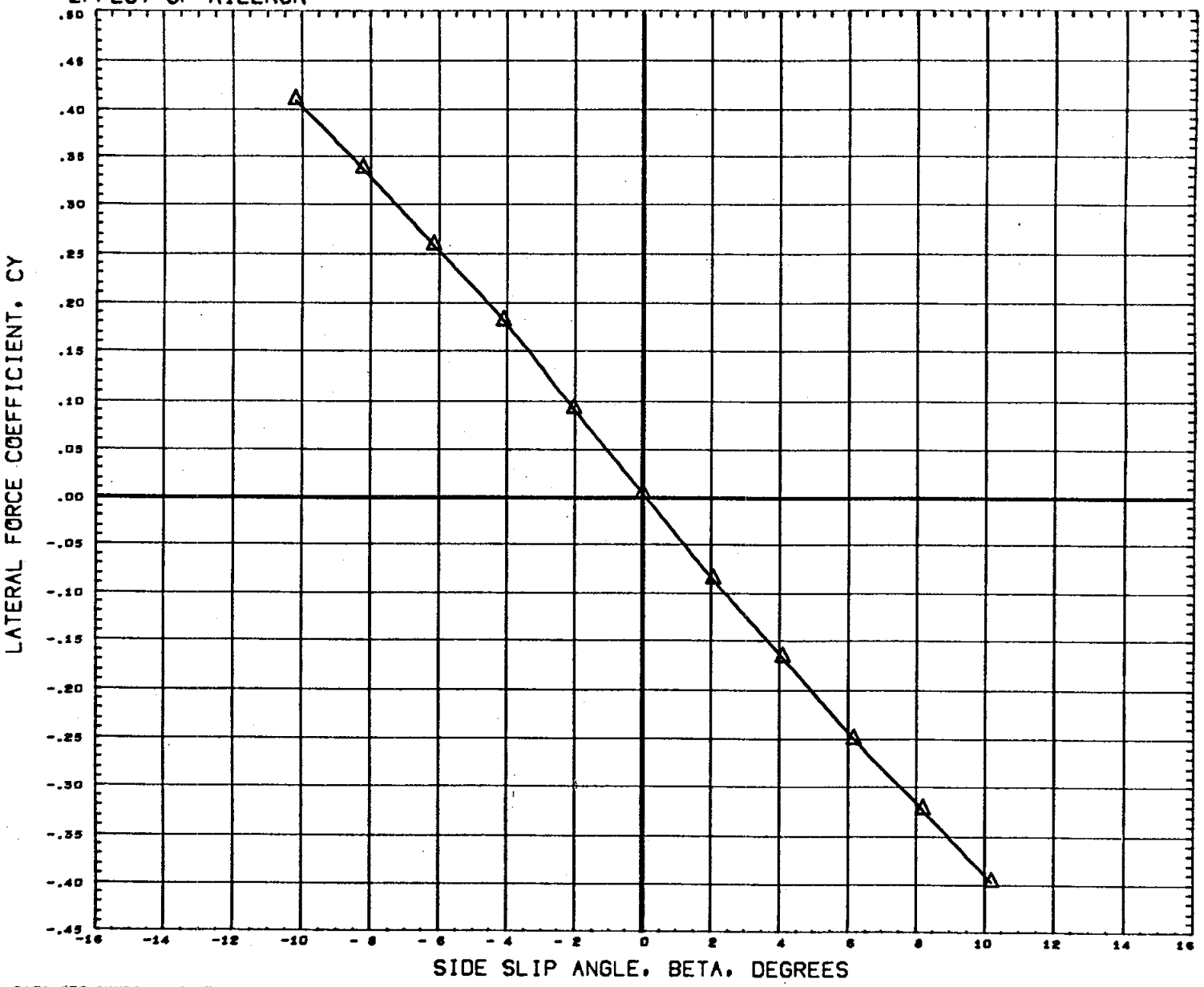
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77027)	Q	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)
(A77017)	X	DATA NOT AVAILABLE FOR ALL CONDITIONS

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



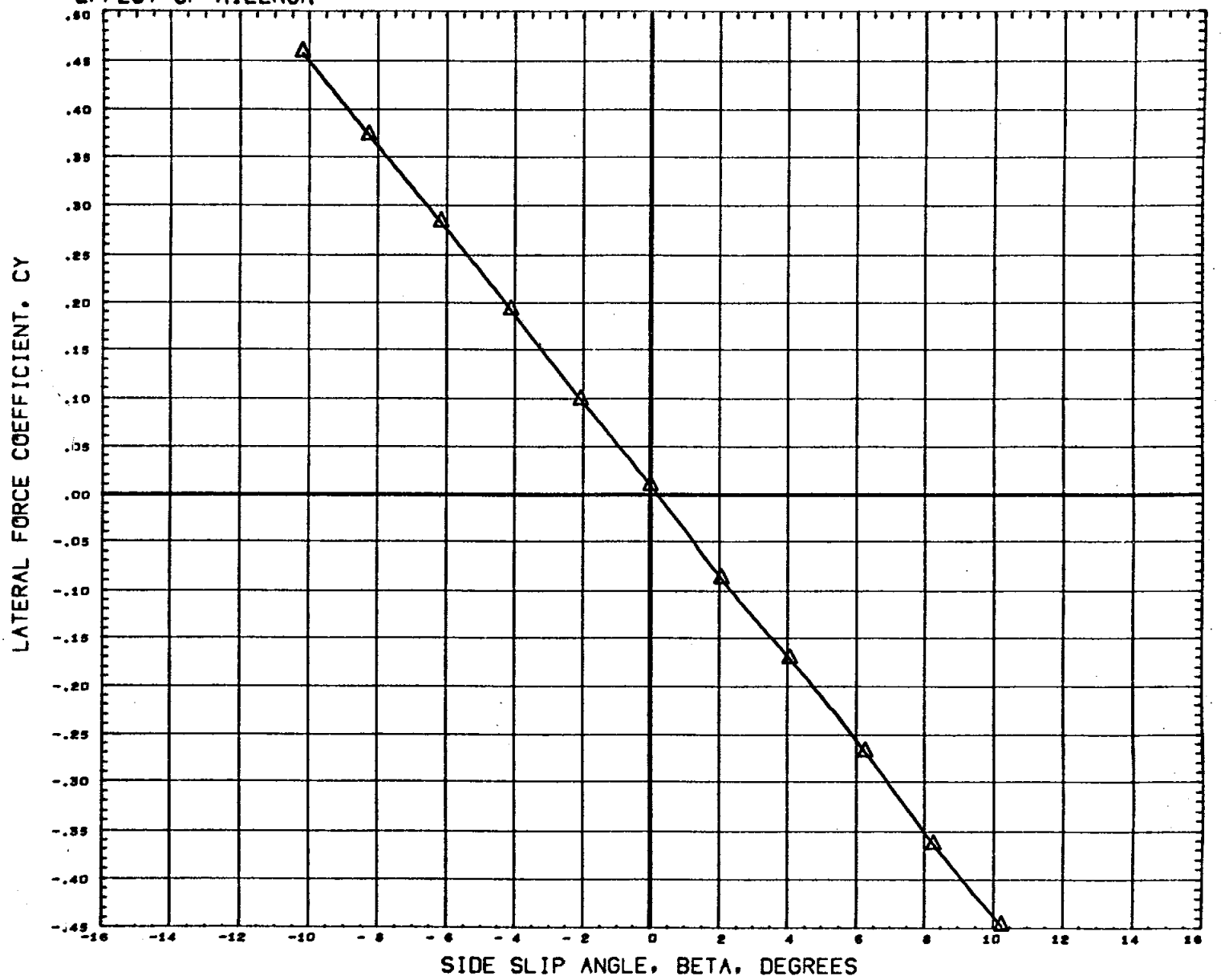
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON

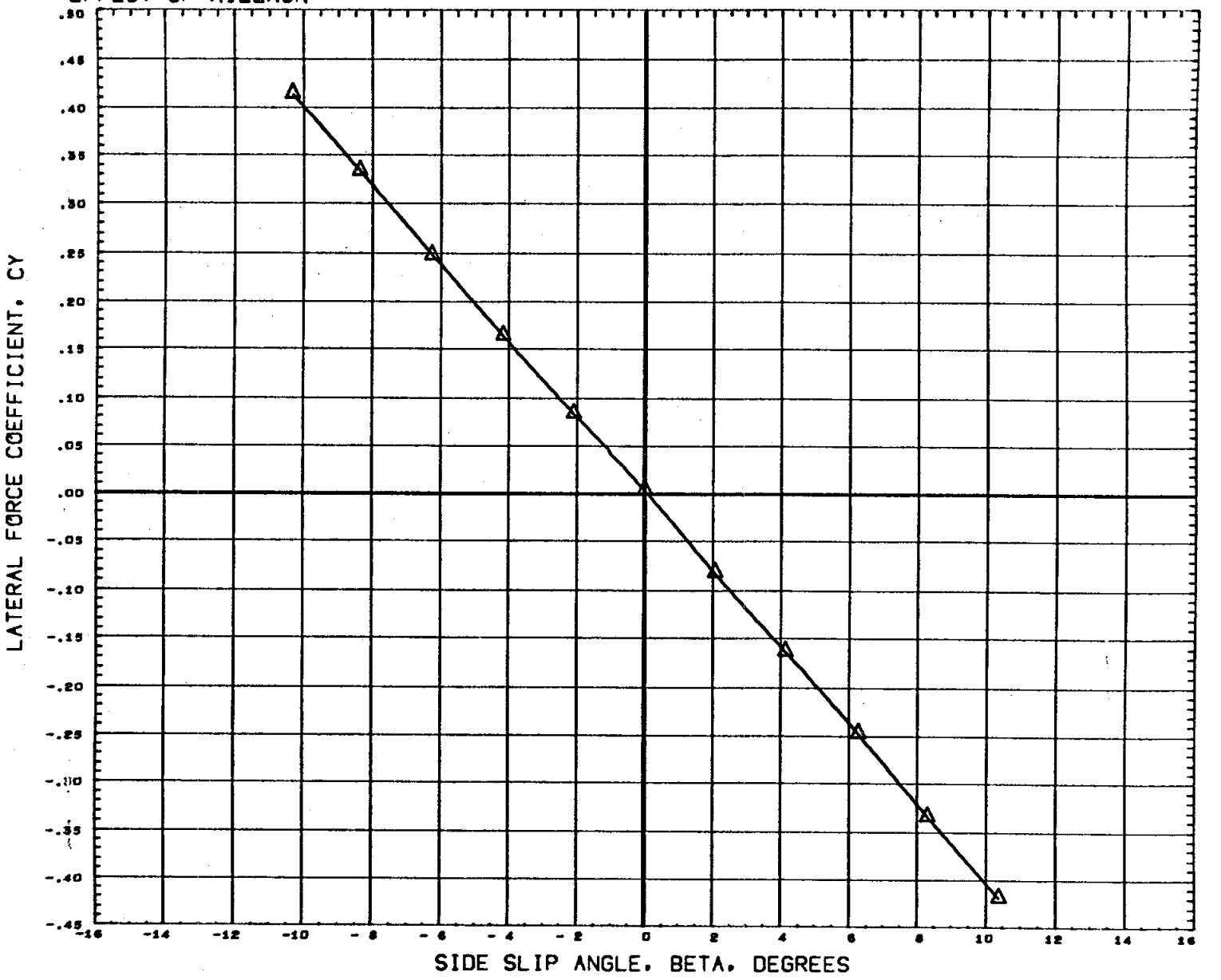


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)		DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	10.000
(A77017)		M556(IA1) NAR ATP BL LV (02)(T1)(S1)	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

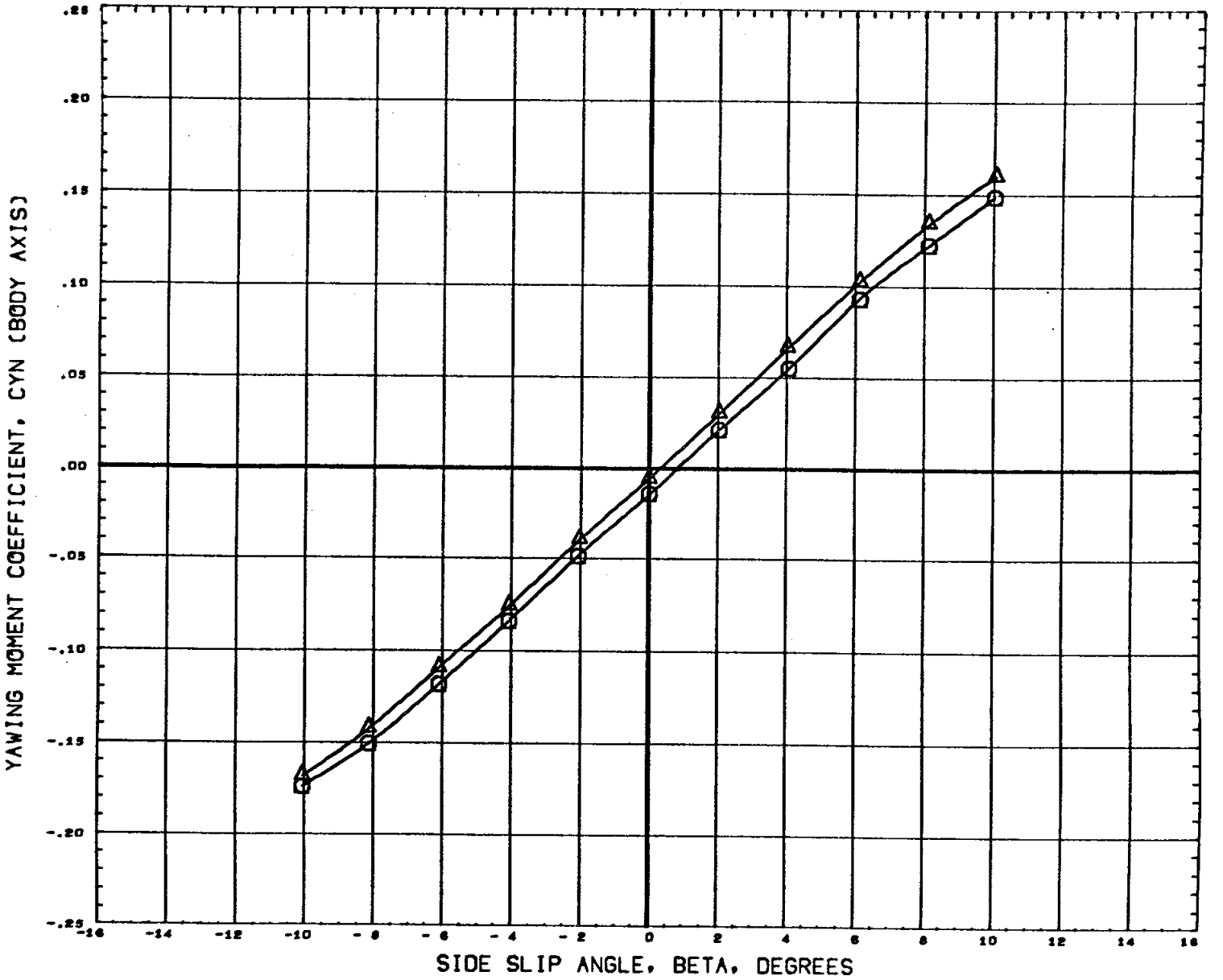


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(A77017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	10.000
			80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON

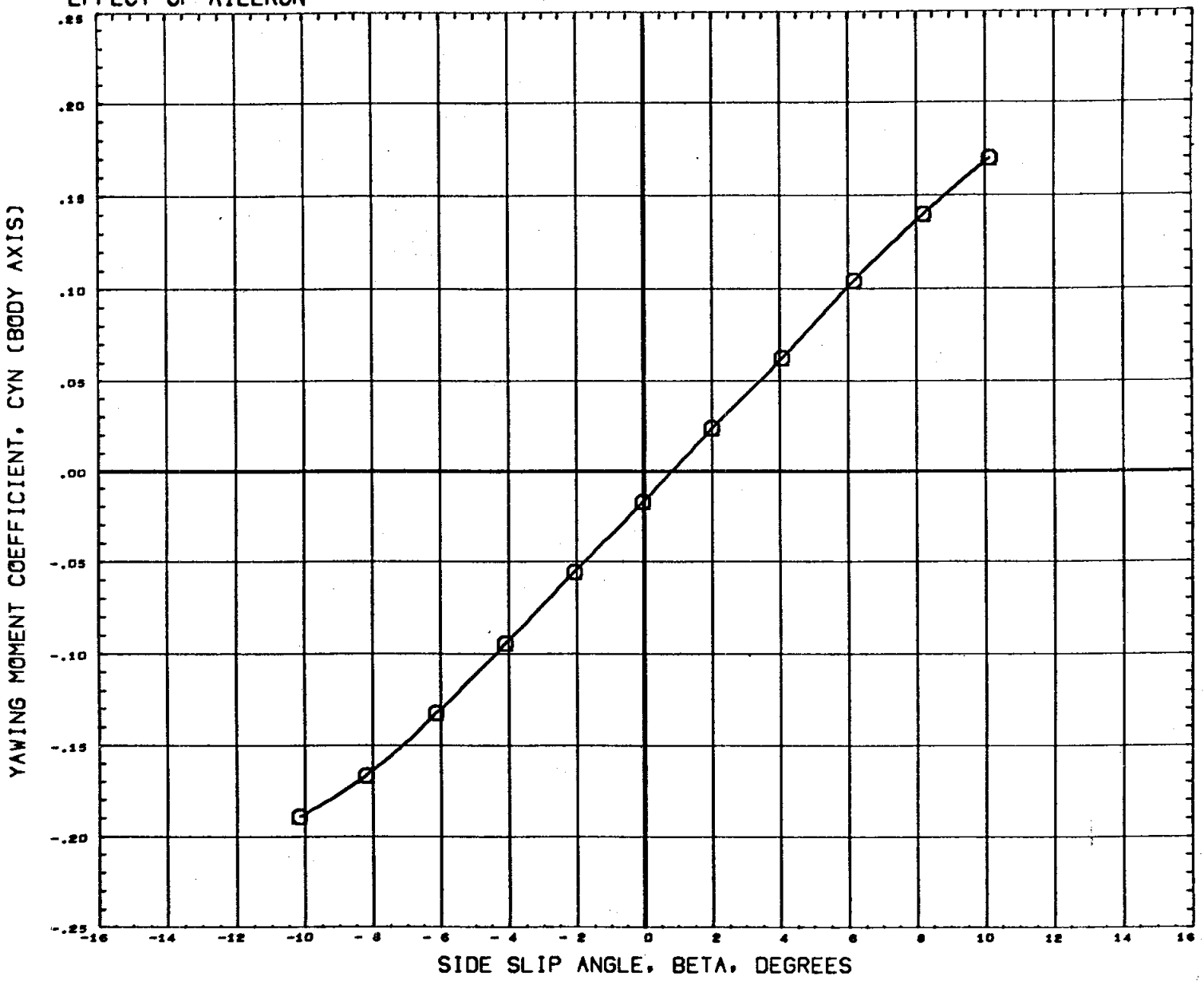


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	10.000
(A77017)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

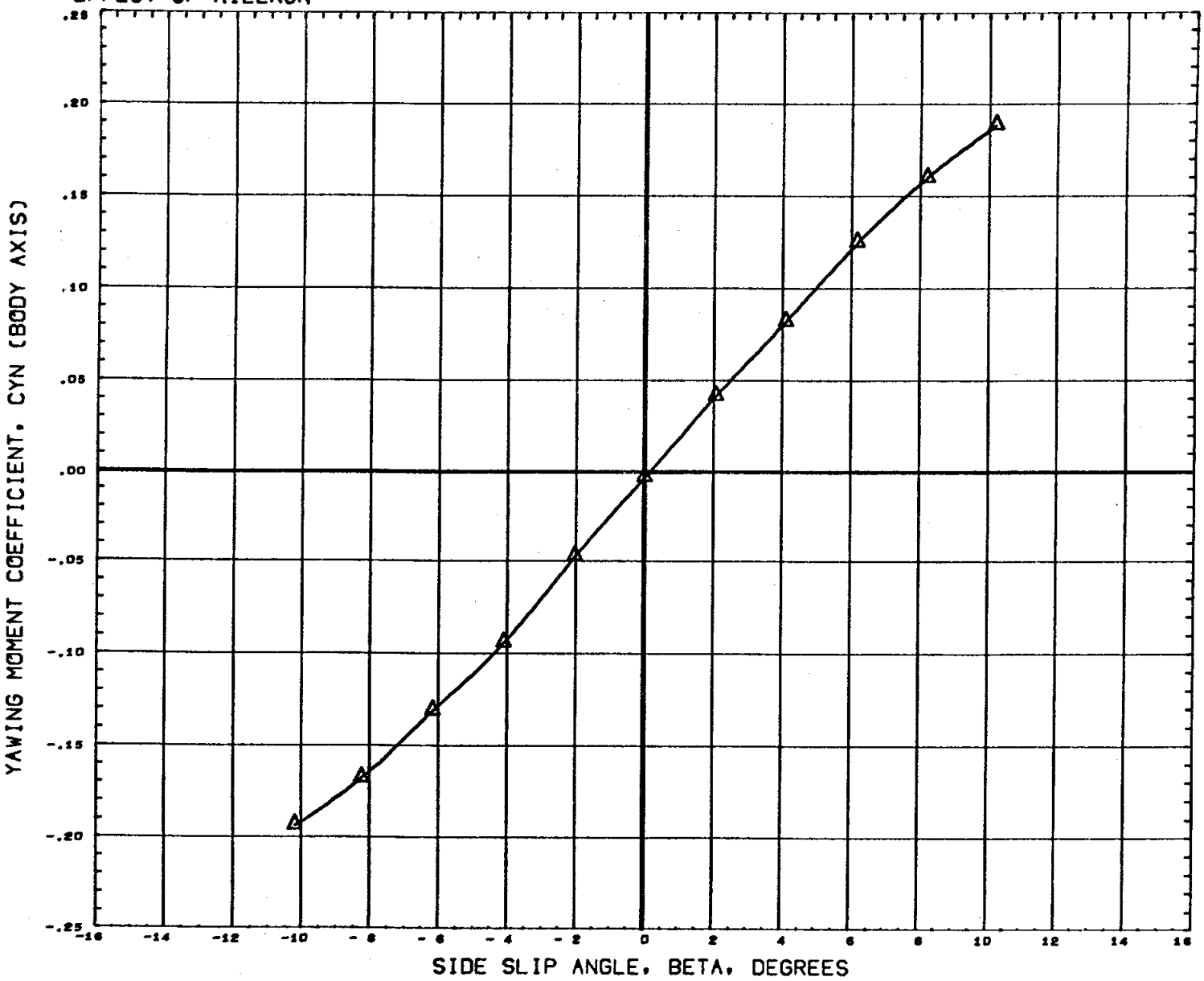


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	10.000
(A77017)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON

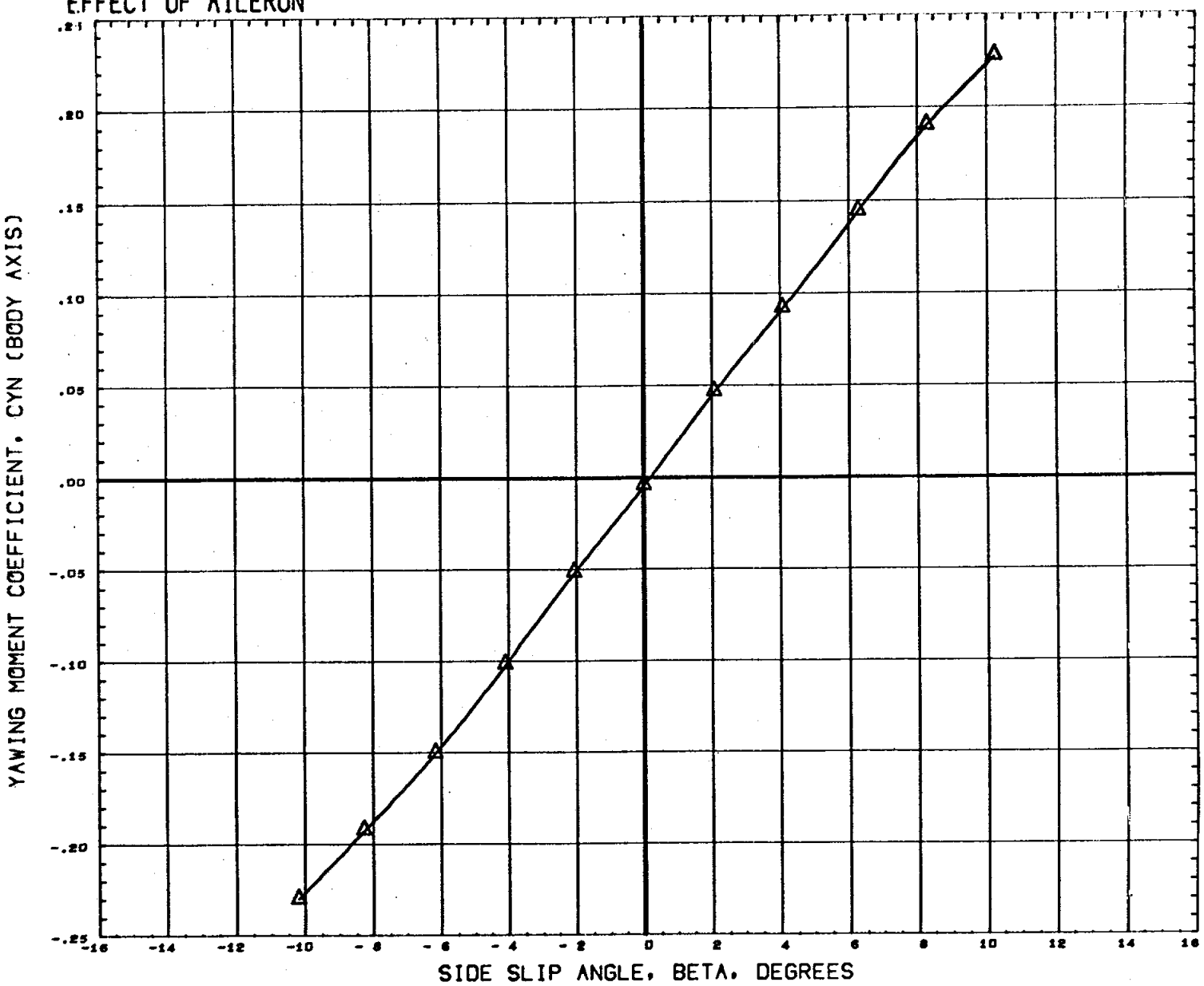


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77017)		M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON

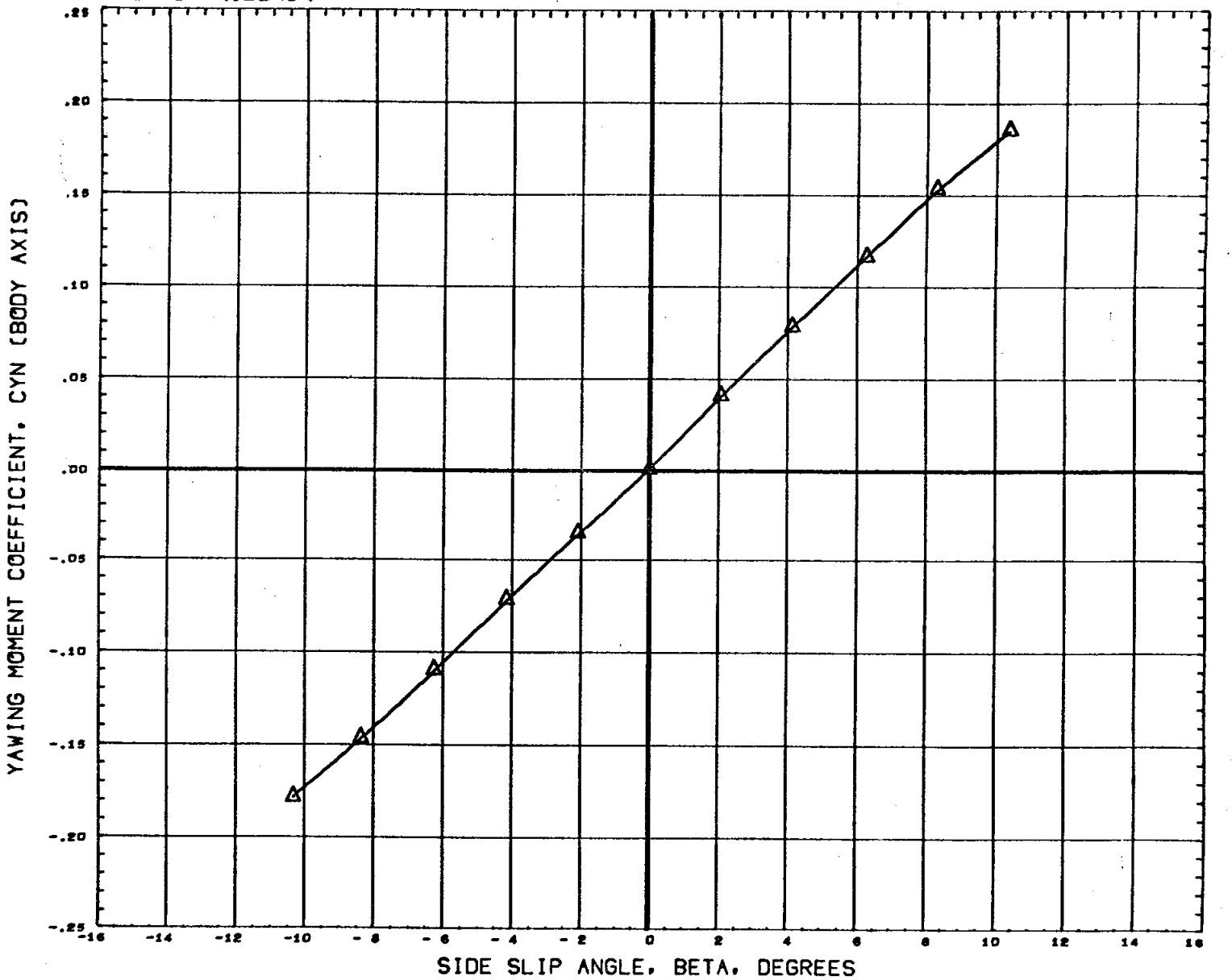


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77017)	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

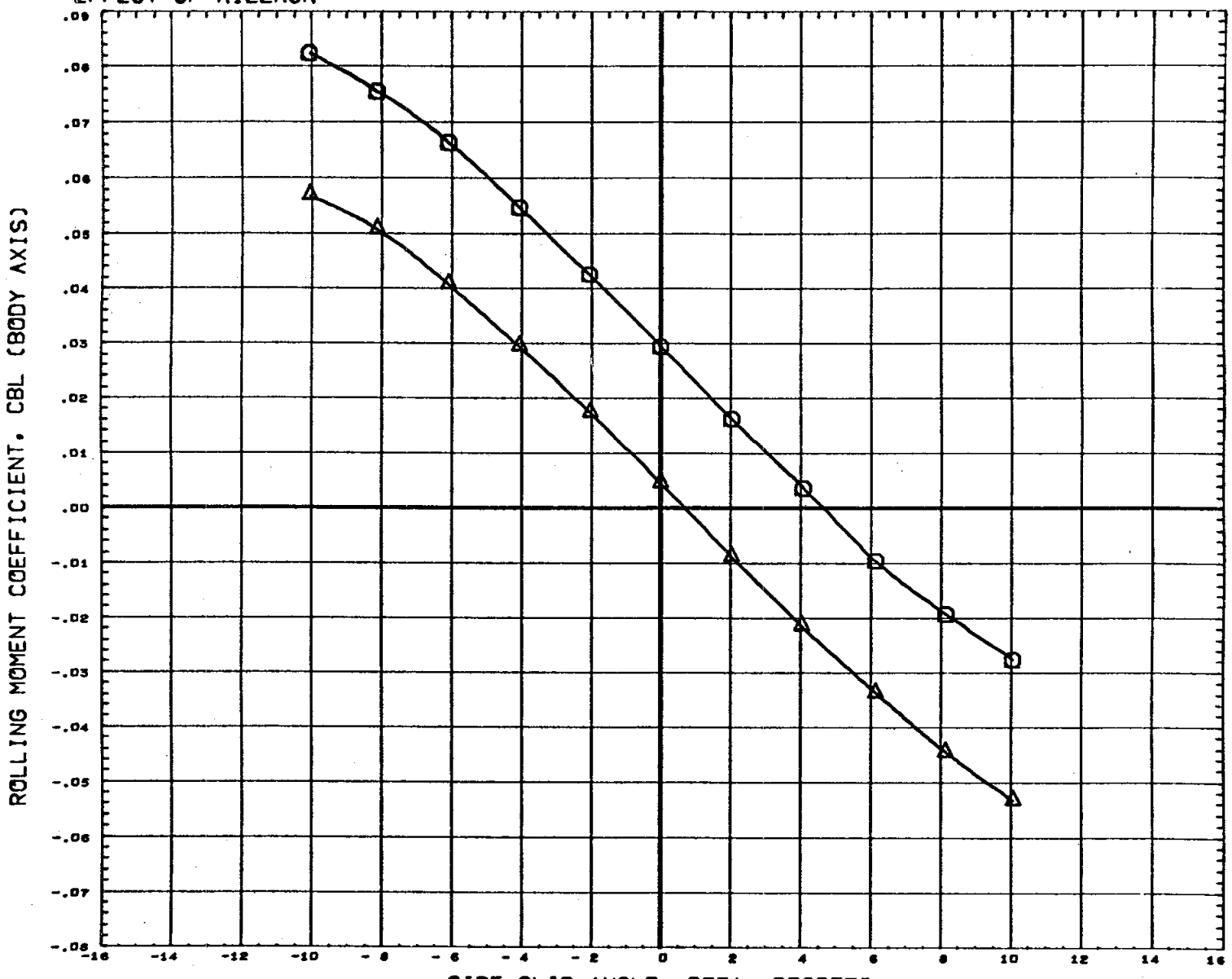


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(AT7027)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(AT7017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON

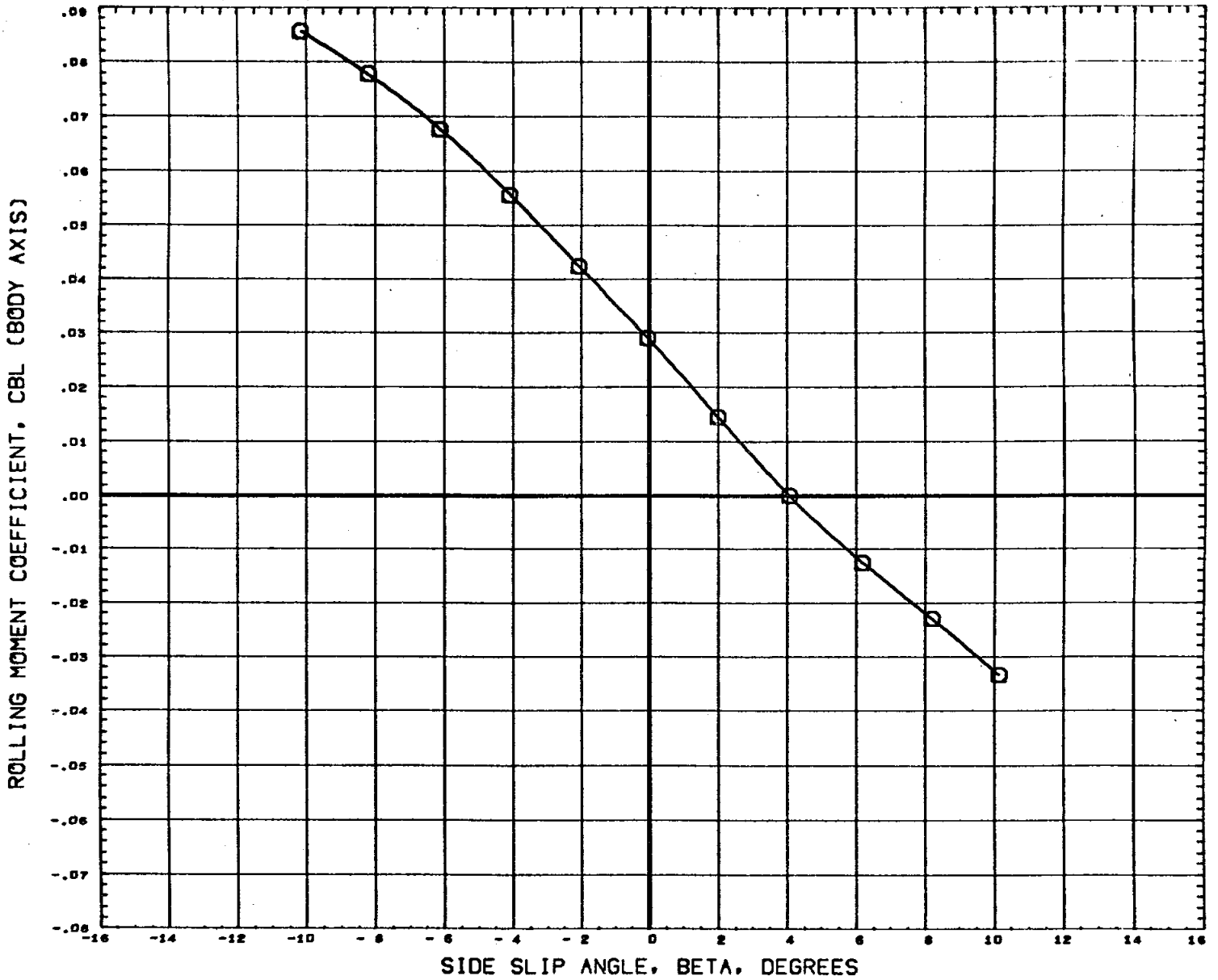


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	10.000
(A77017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

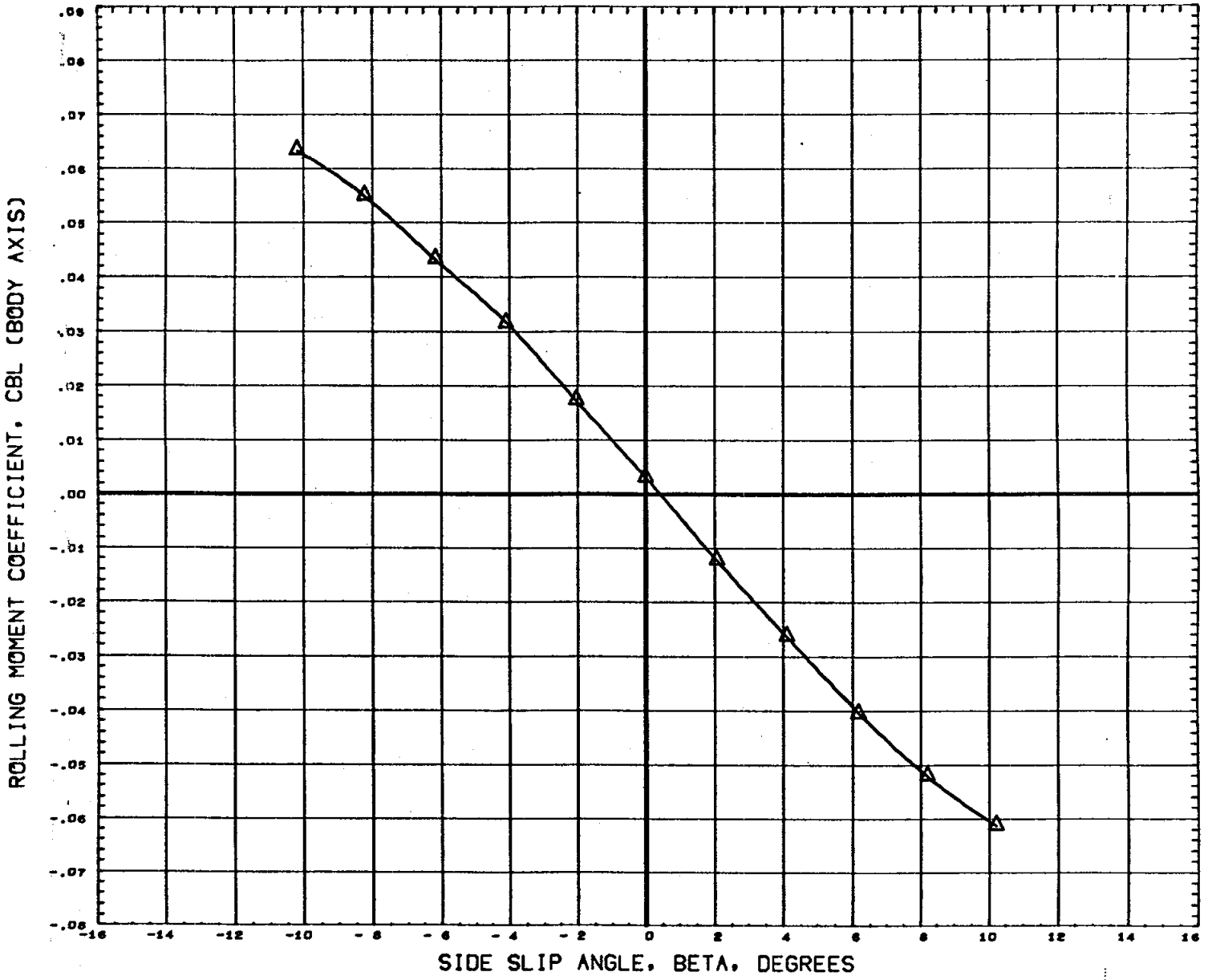


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	60.000	0.000	0.000	10.000
(A77017)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON

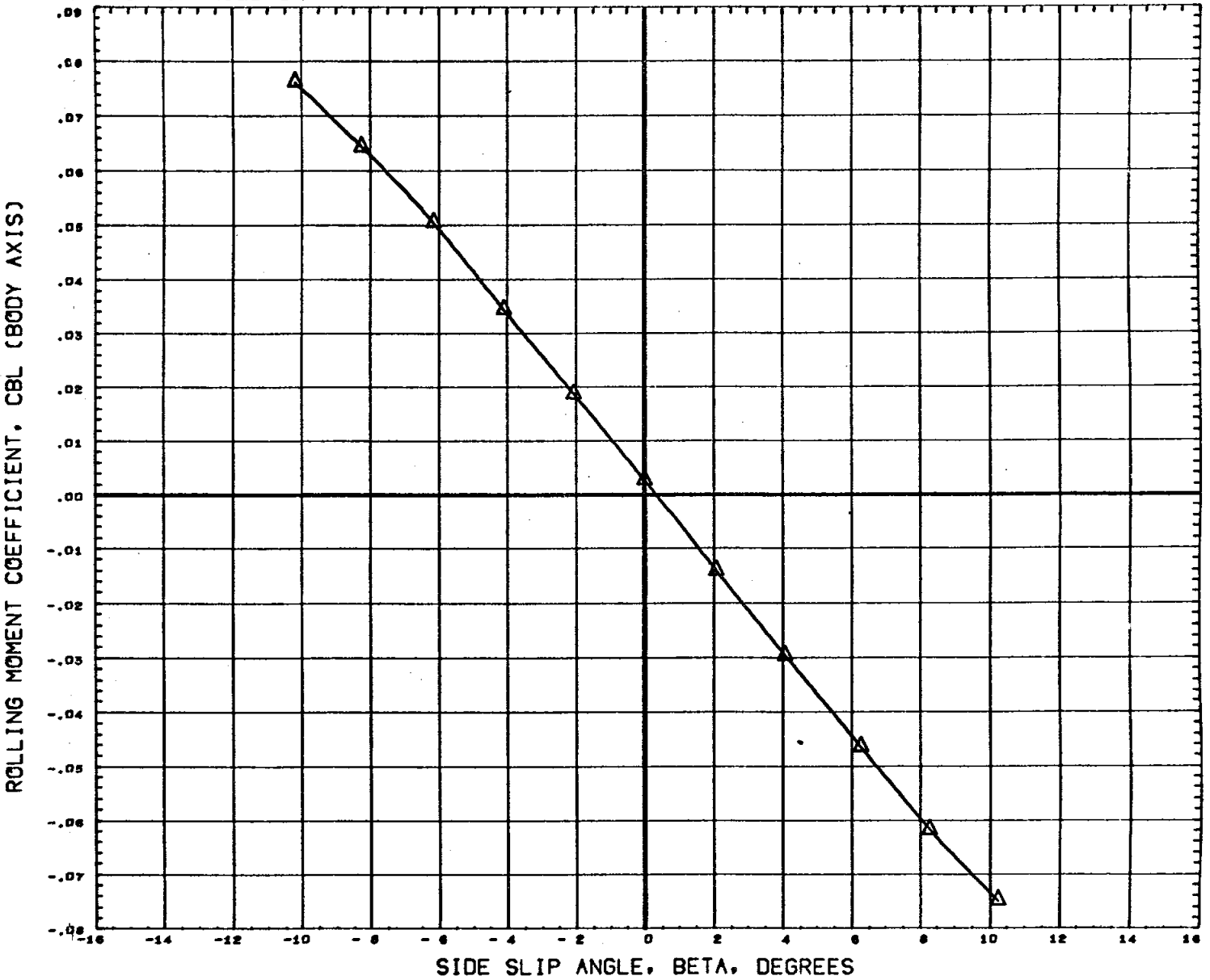


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON

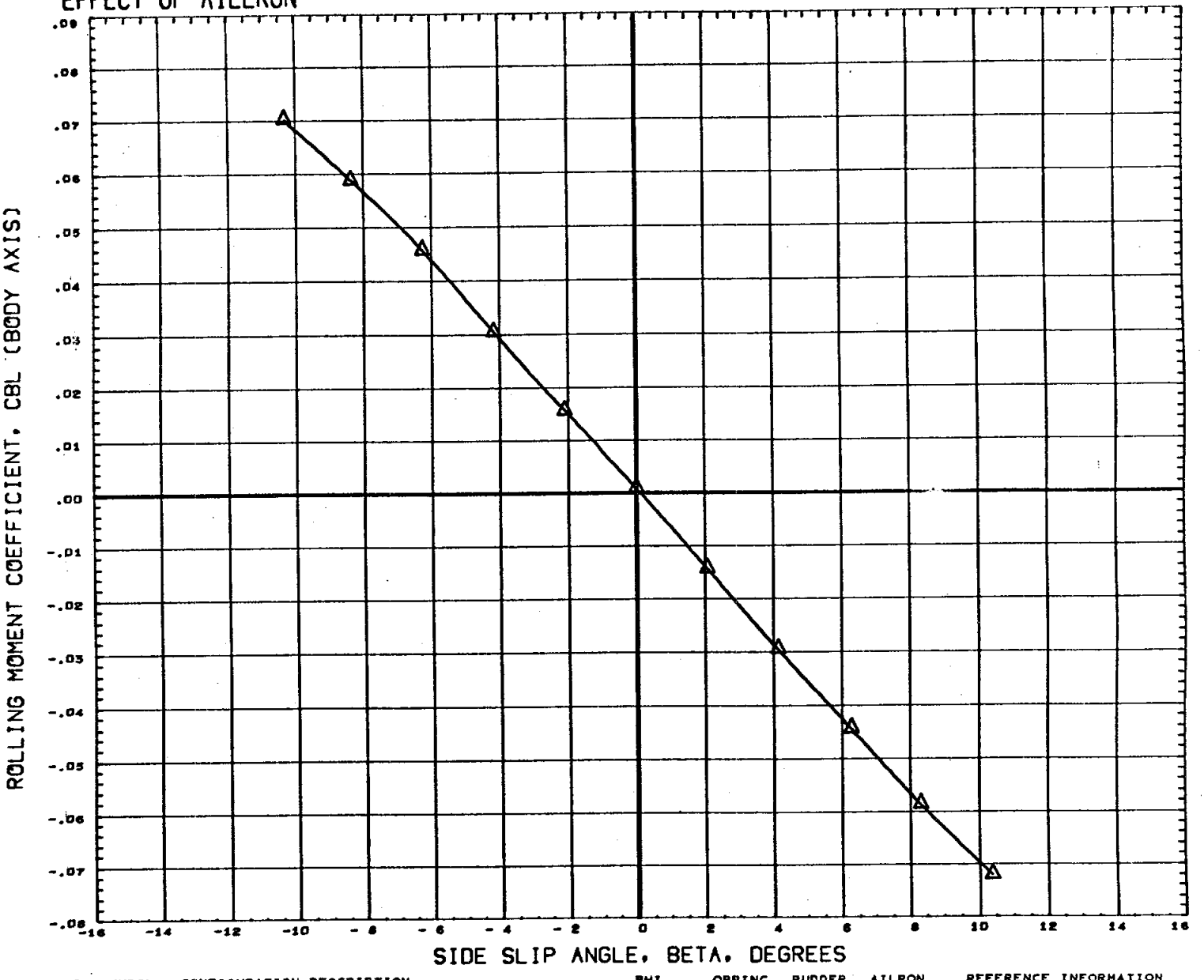


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77017)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

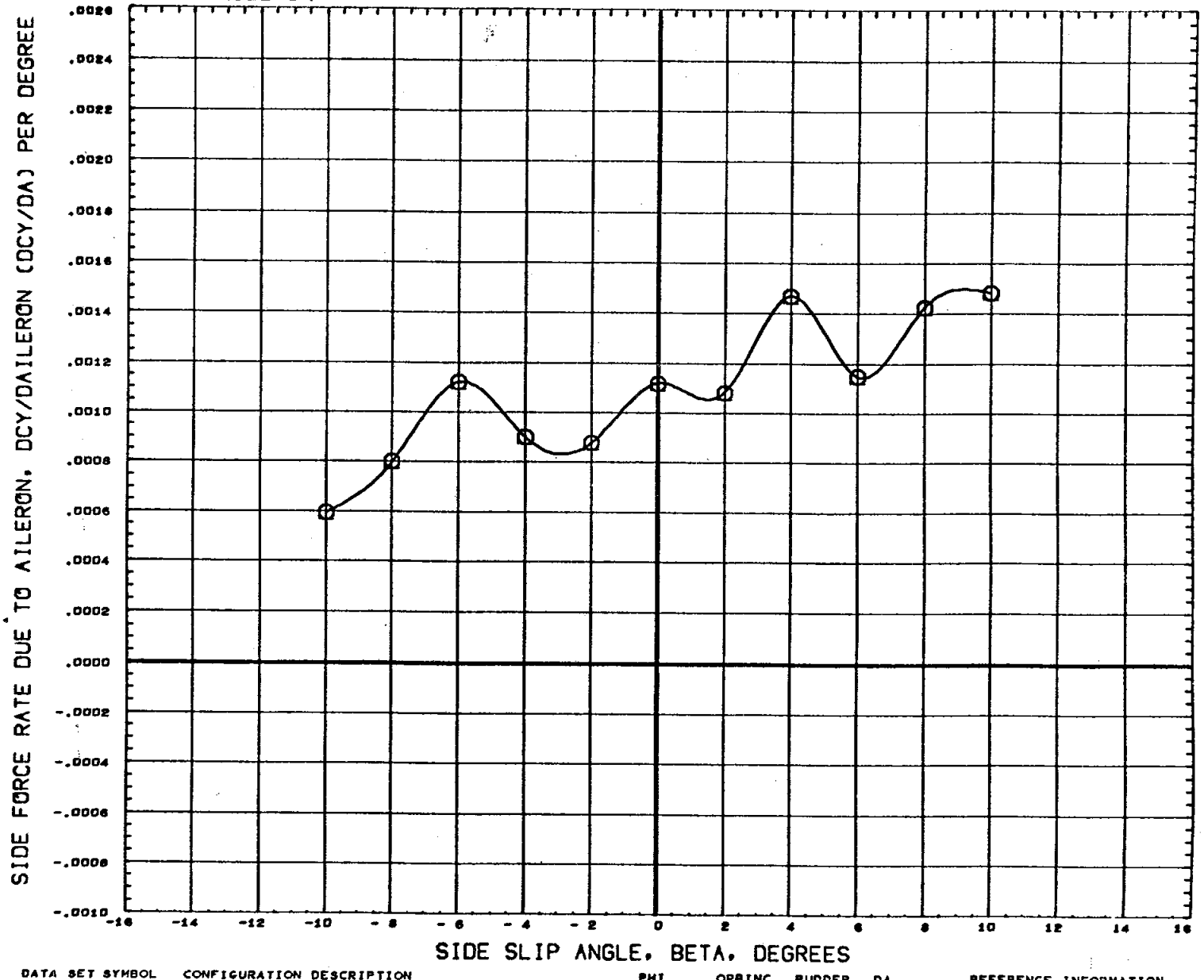


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77027)	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	10.000
(A77017) M556(IA1) NAR ATP BL LV (O2)(T1)(S1)		80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON

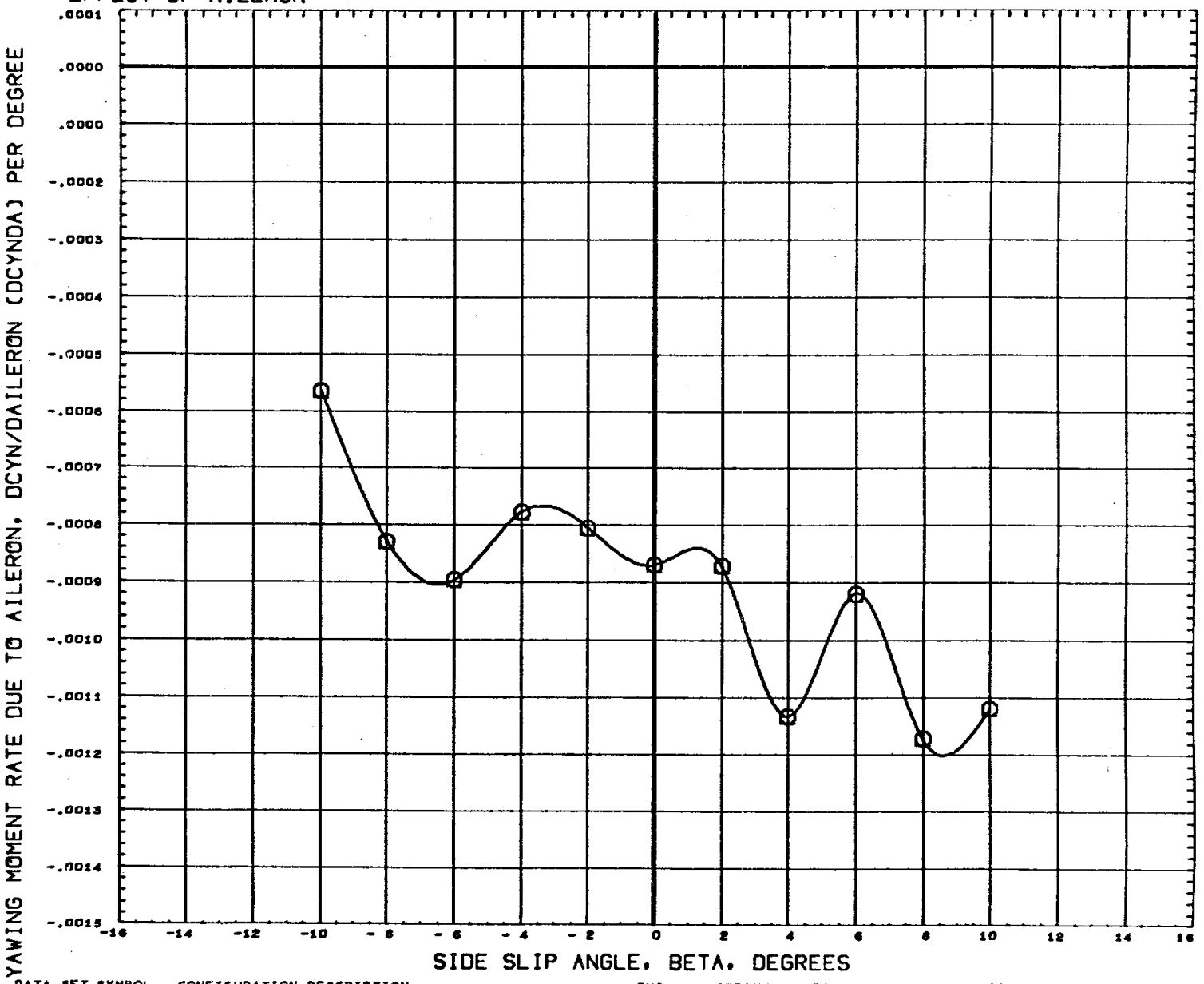


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C27) O	M556(IA1) NAR ATP BL LV (02)(T1)(S1)	60.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

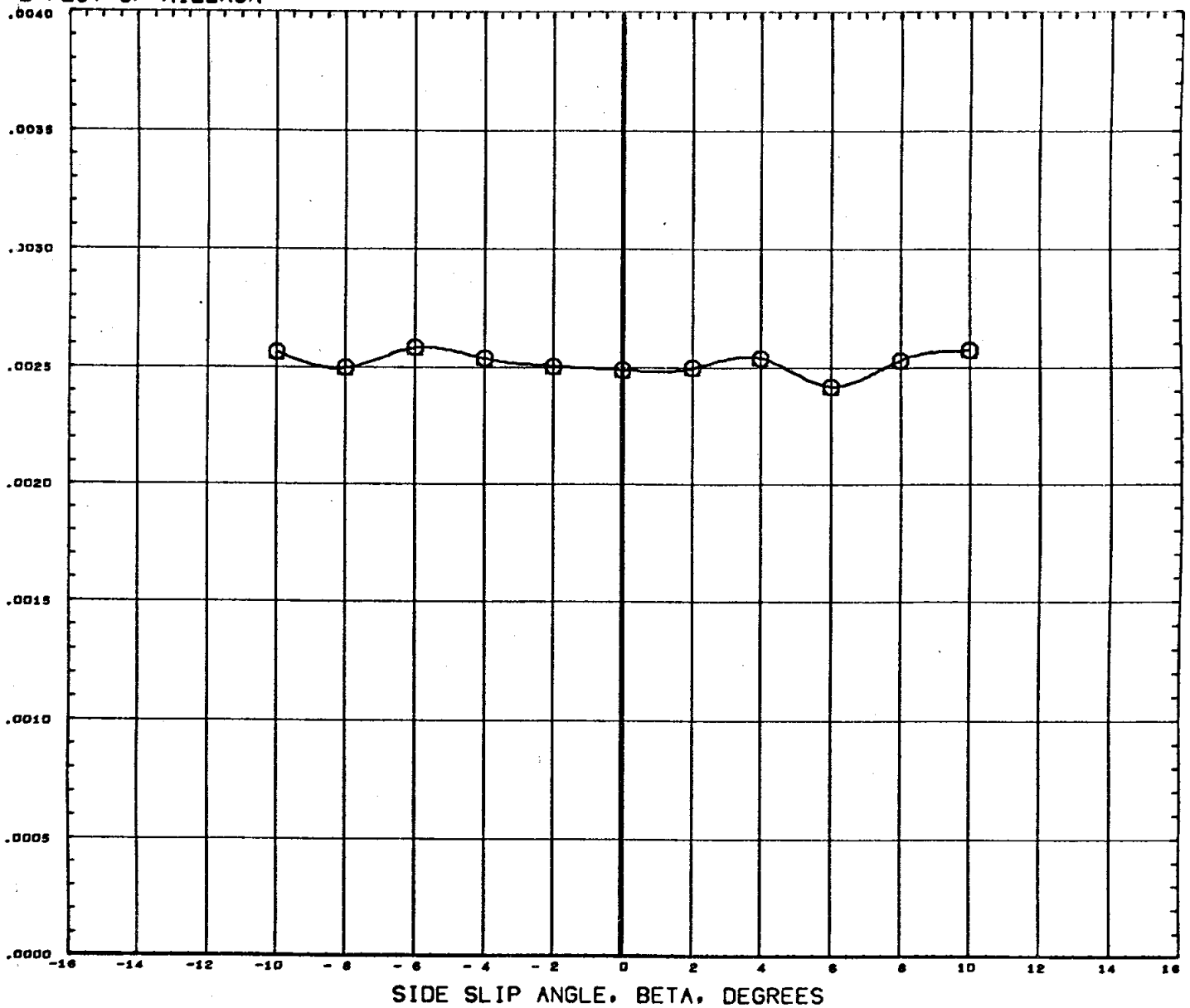


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C27) ○	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

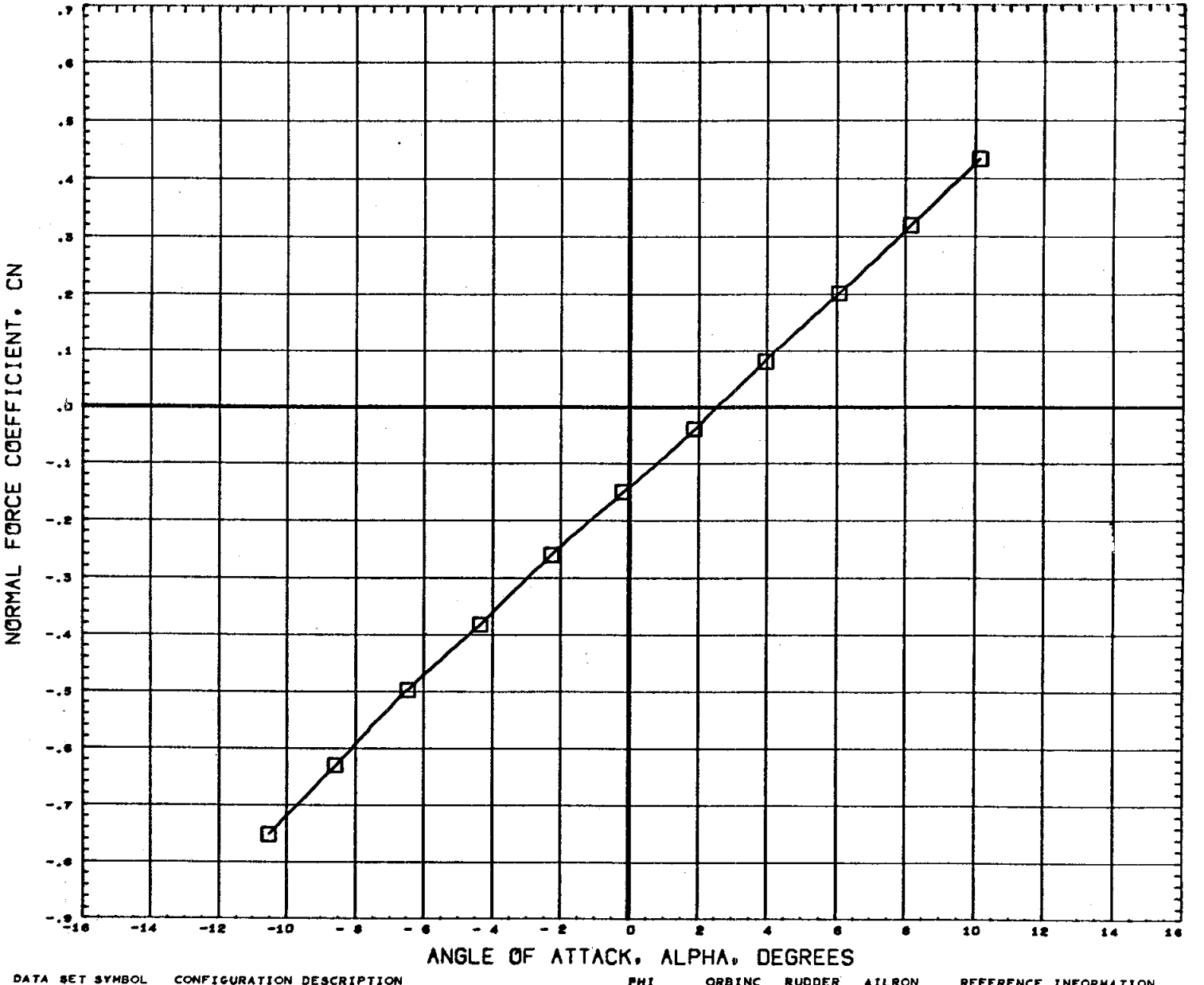


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	DA
(F77C27) O	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)	80.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER

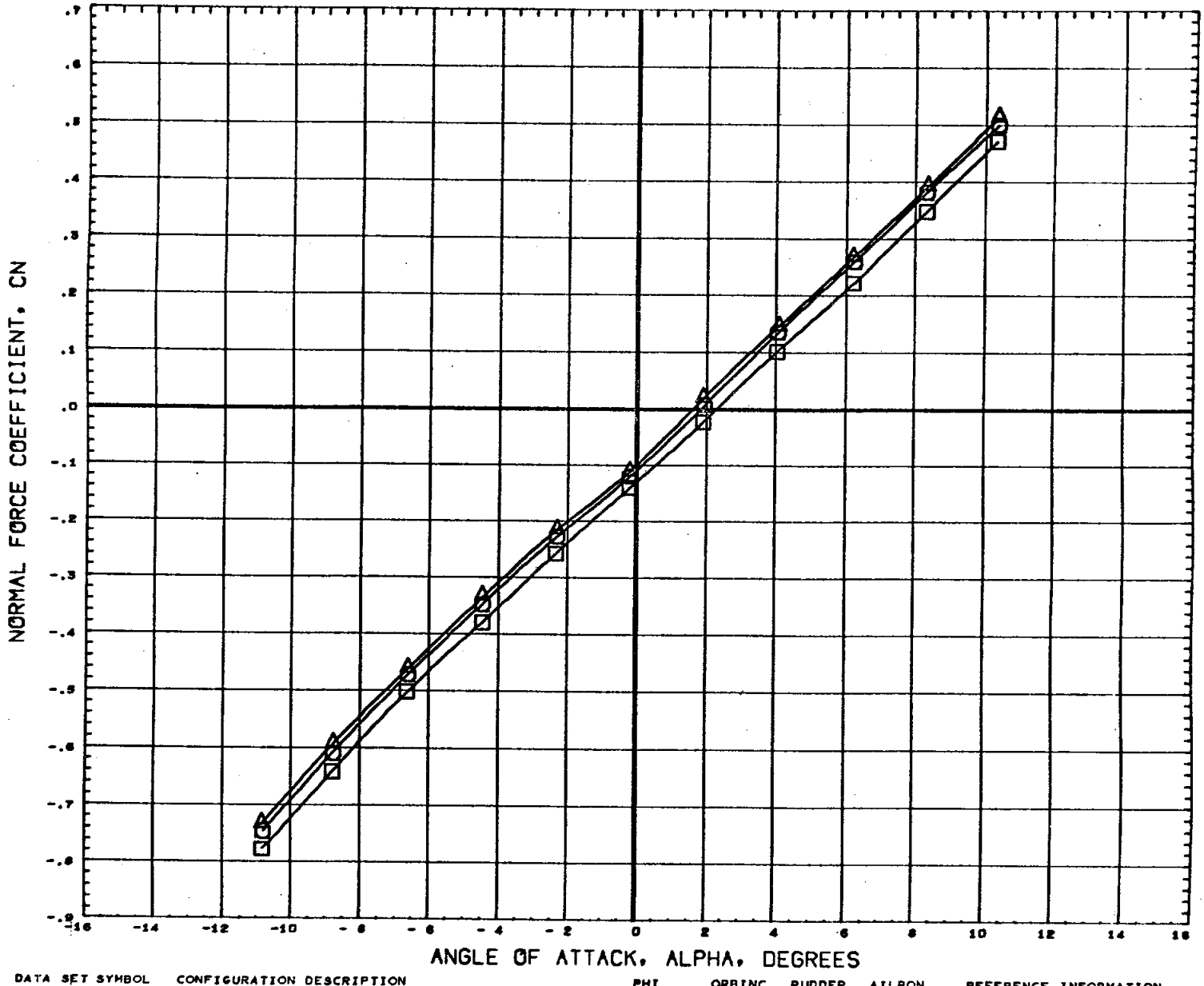


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	15.000	0.000
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER



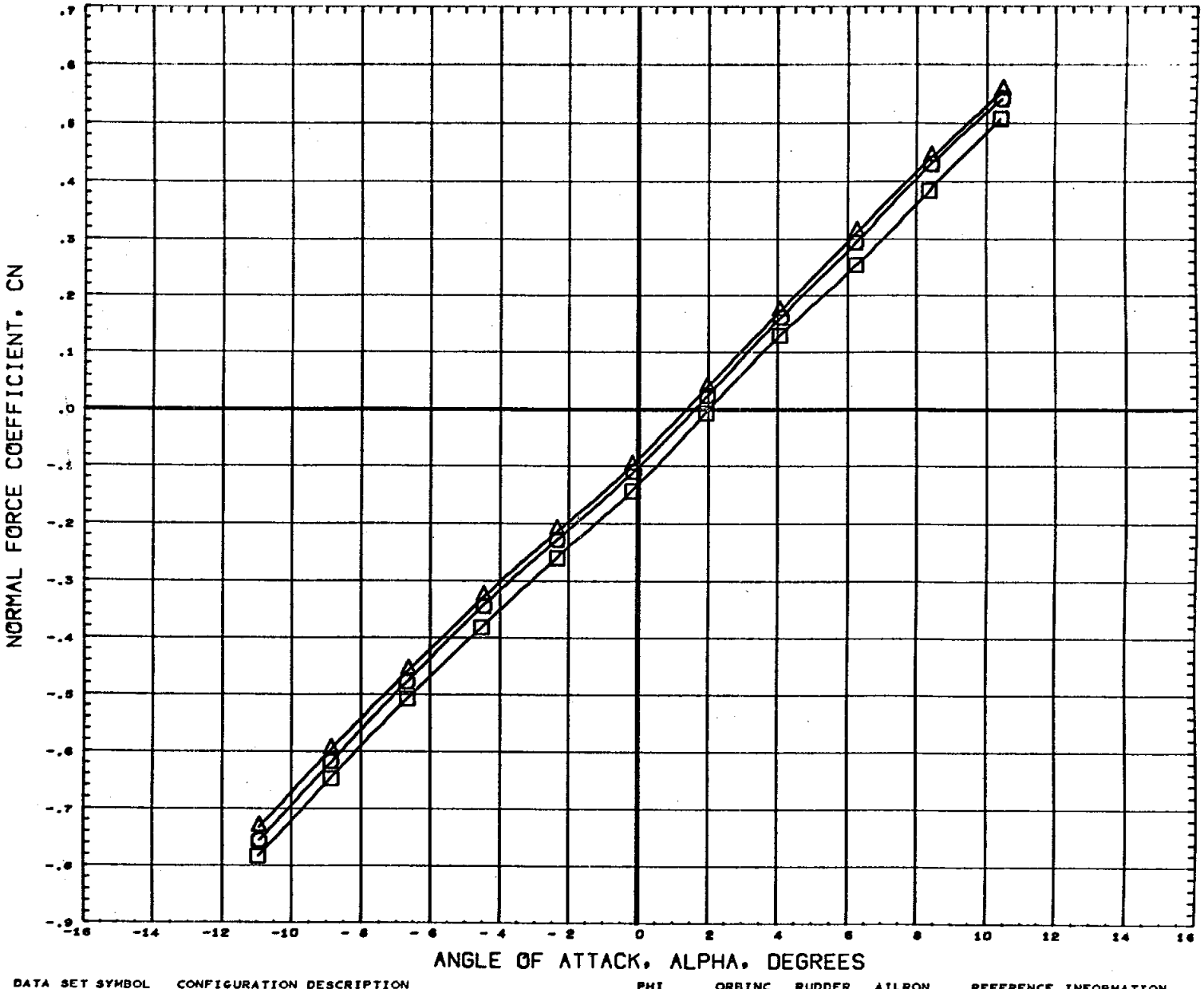
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER

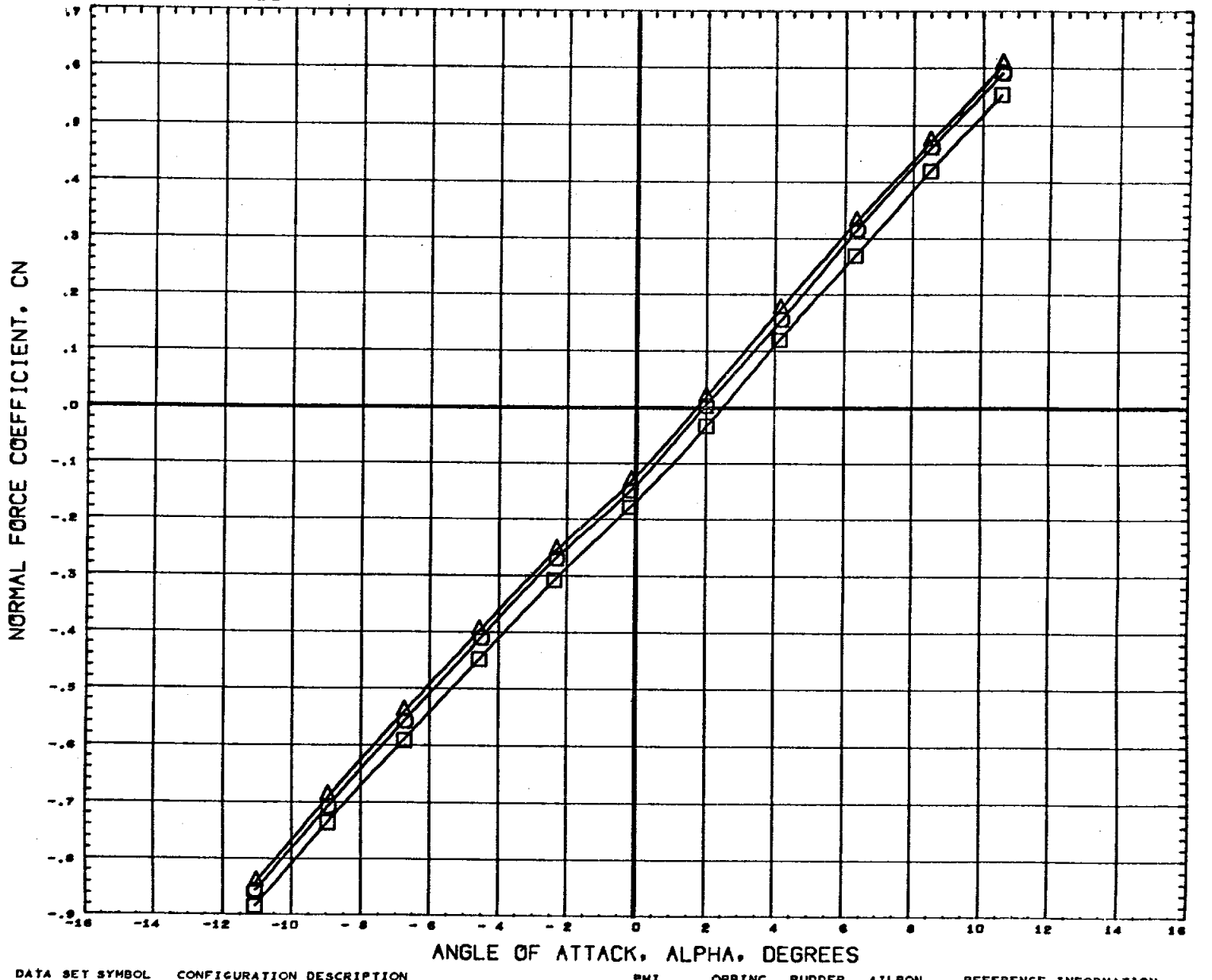


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER



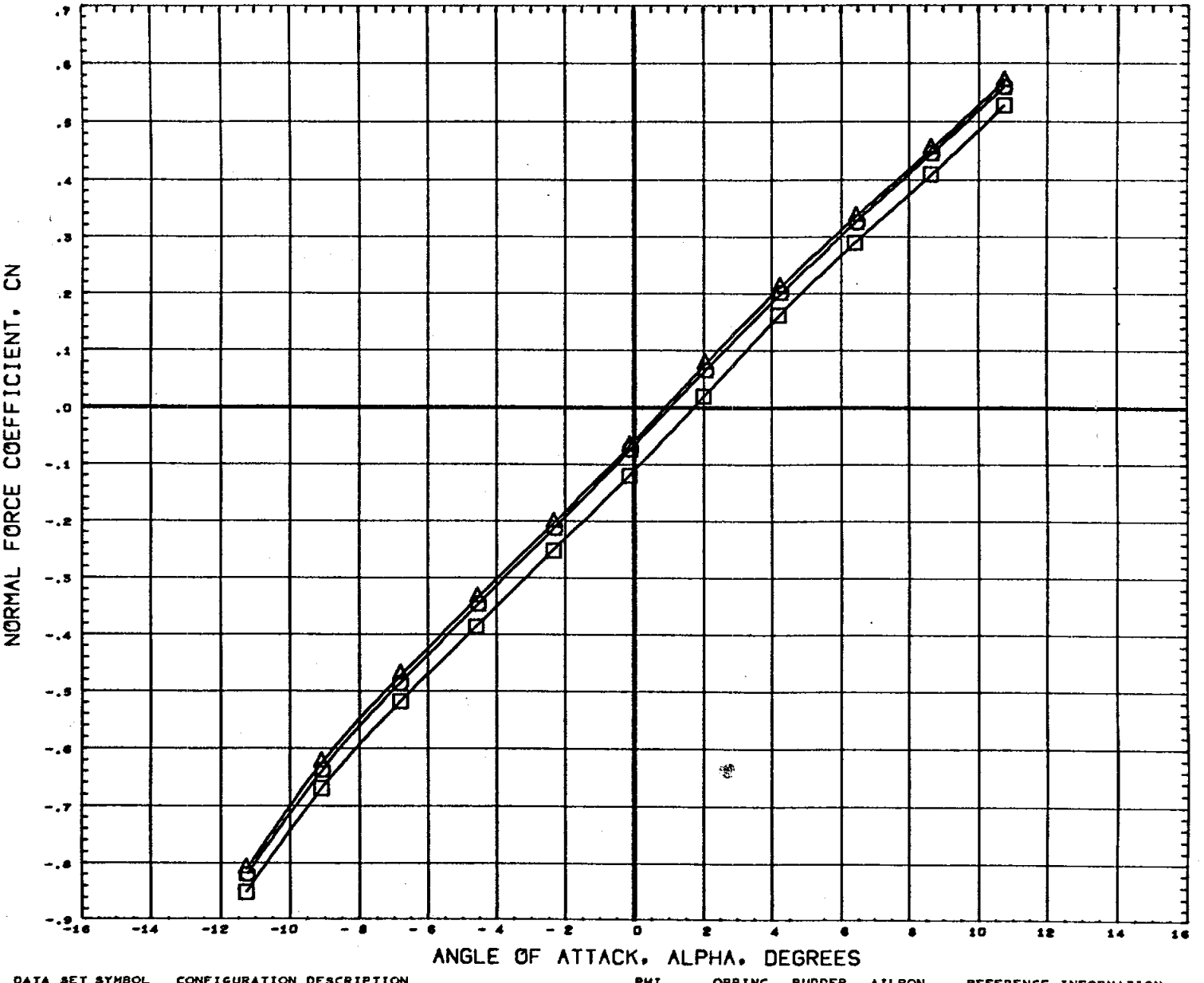
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

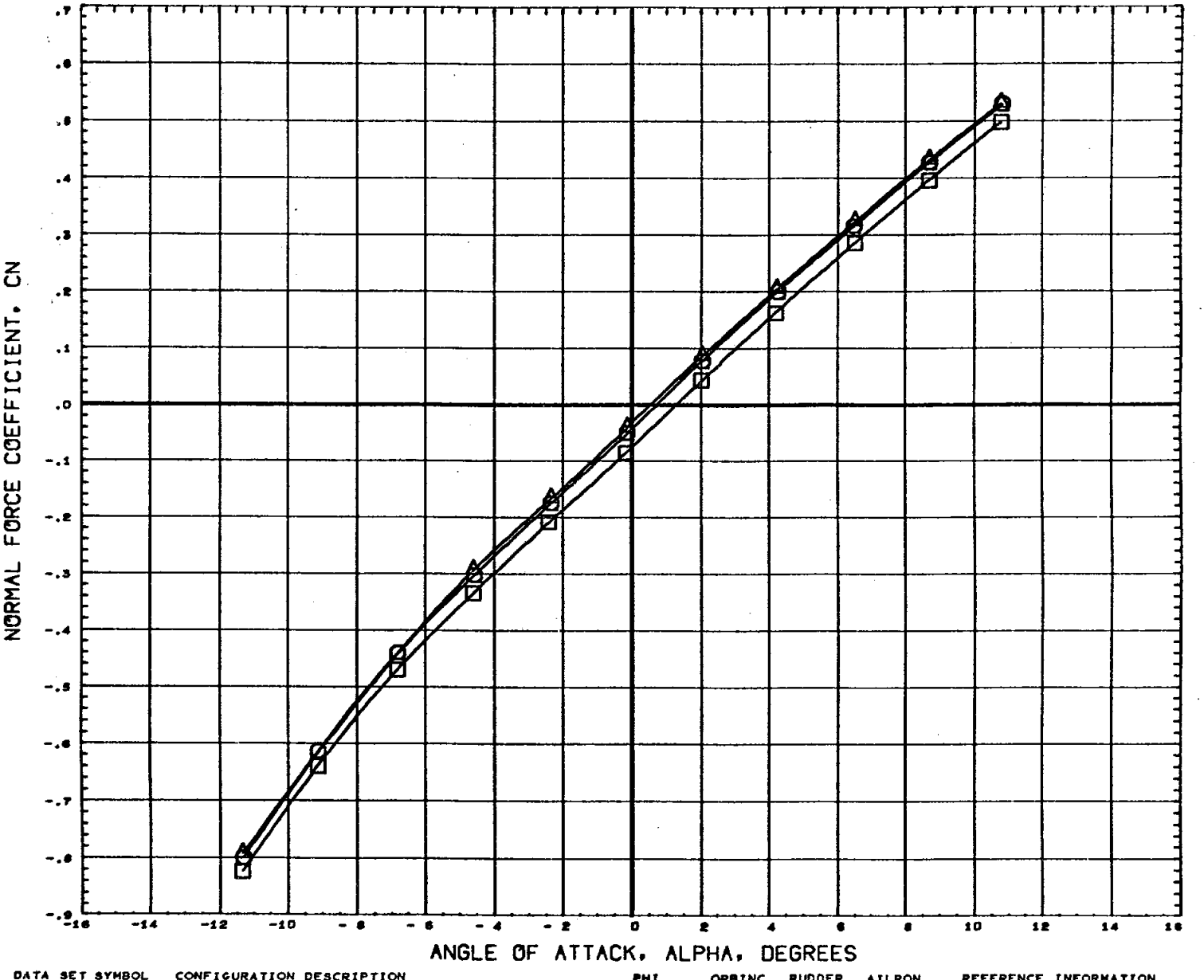


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER

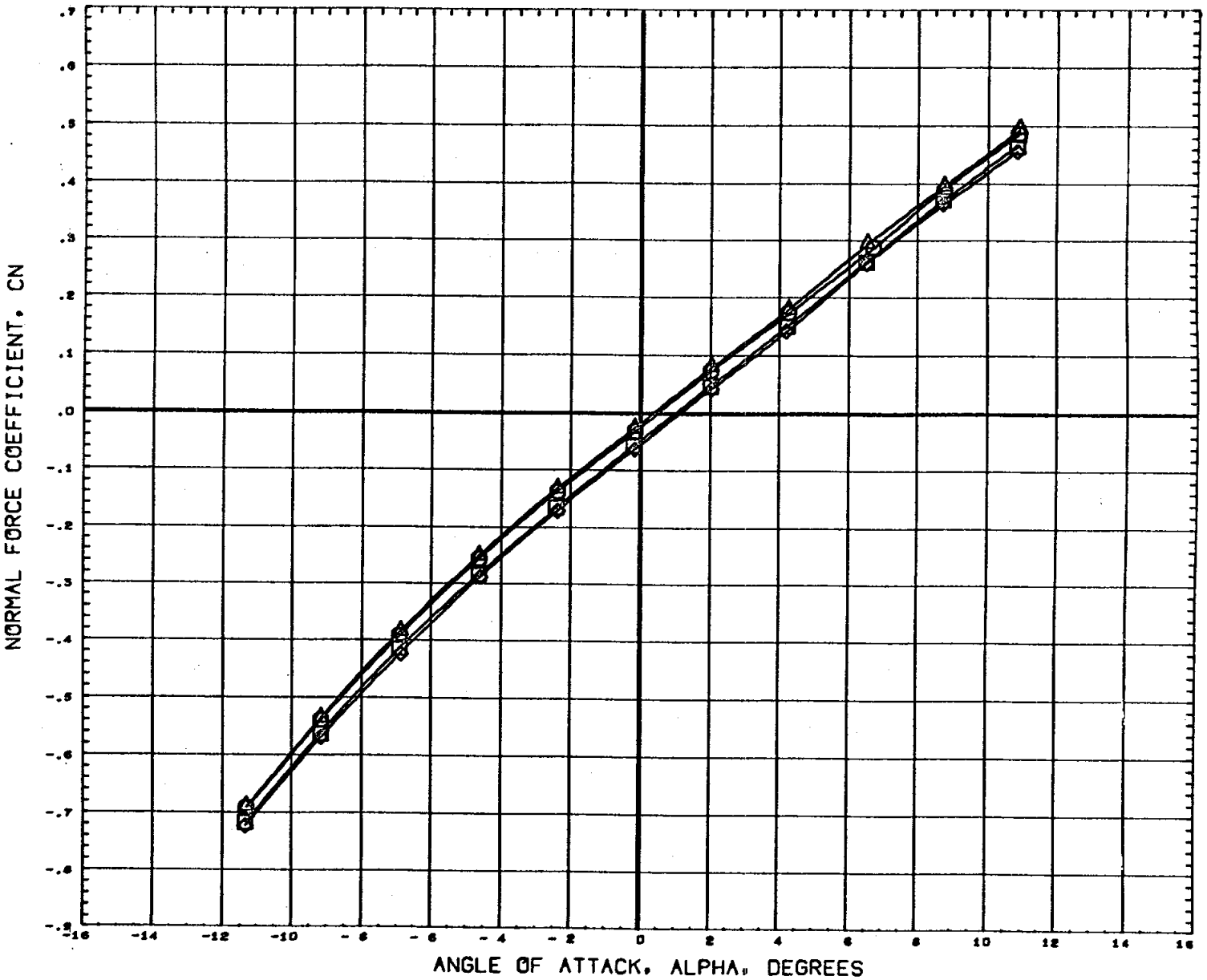


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER



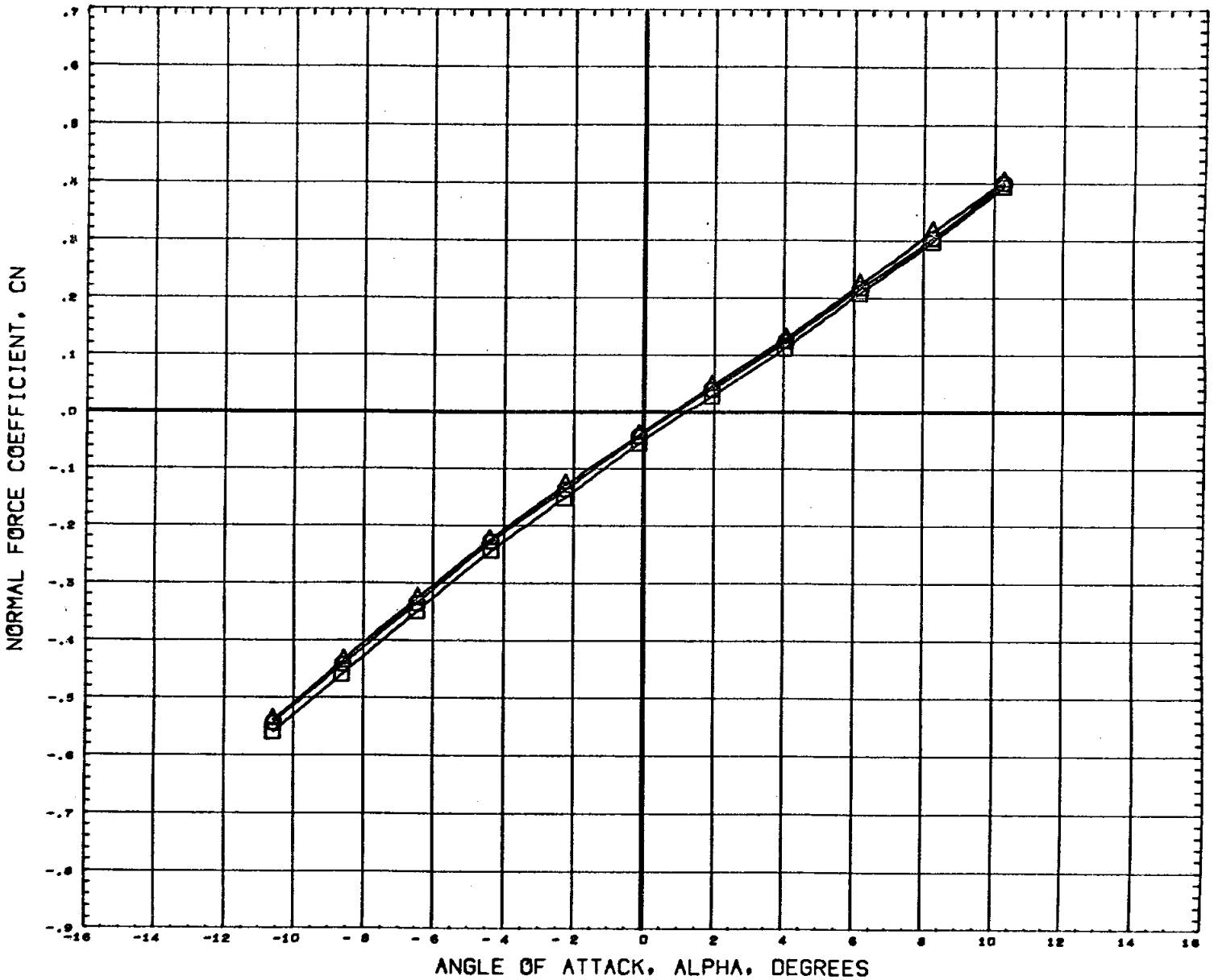
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

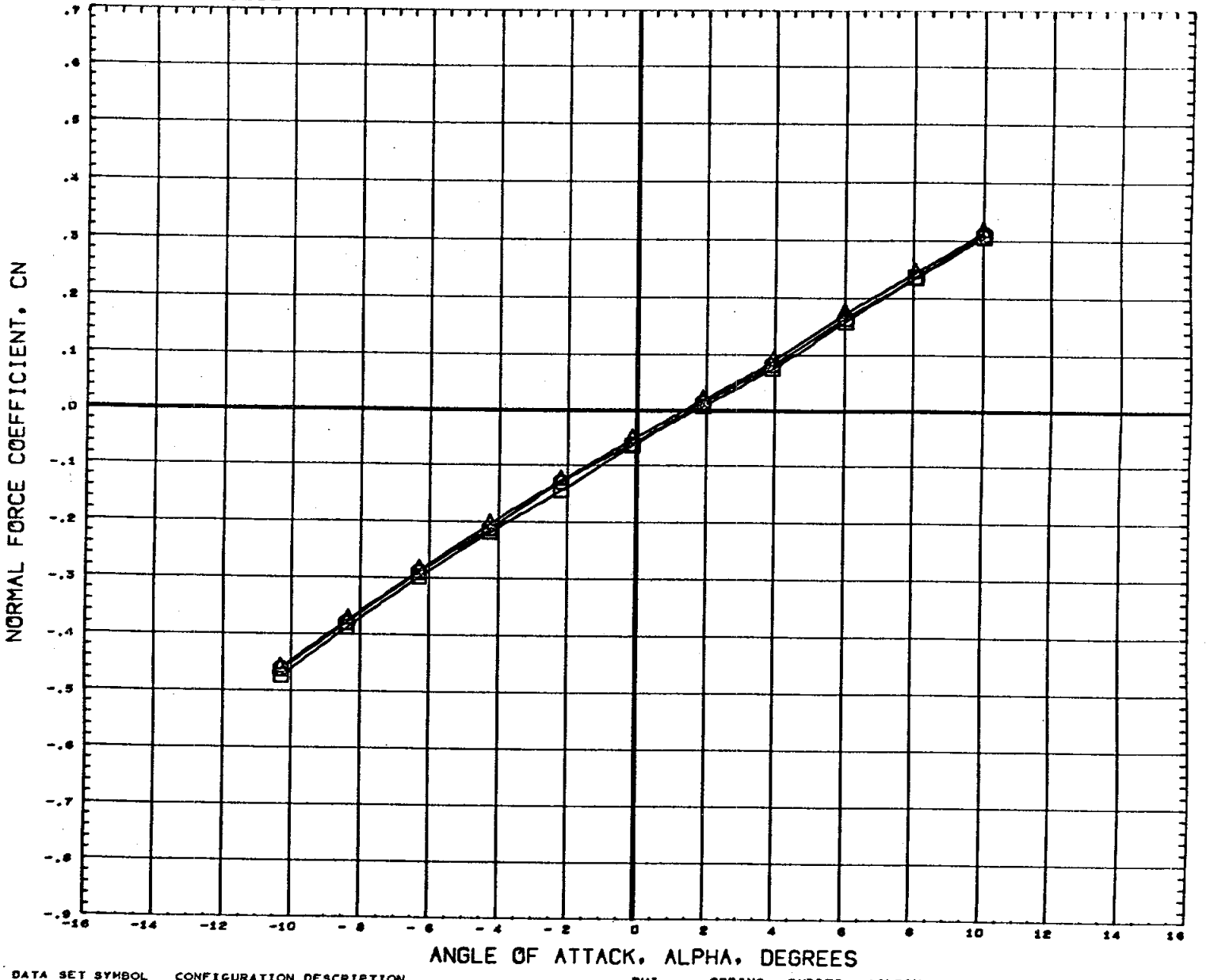


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	⊠	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER



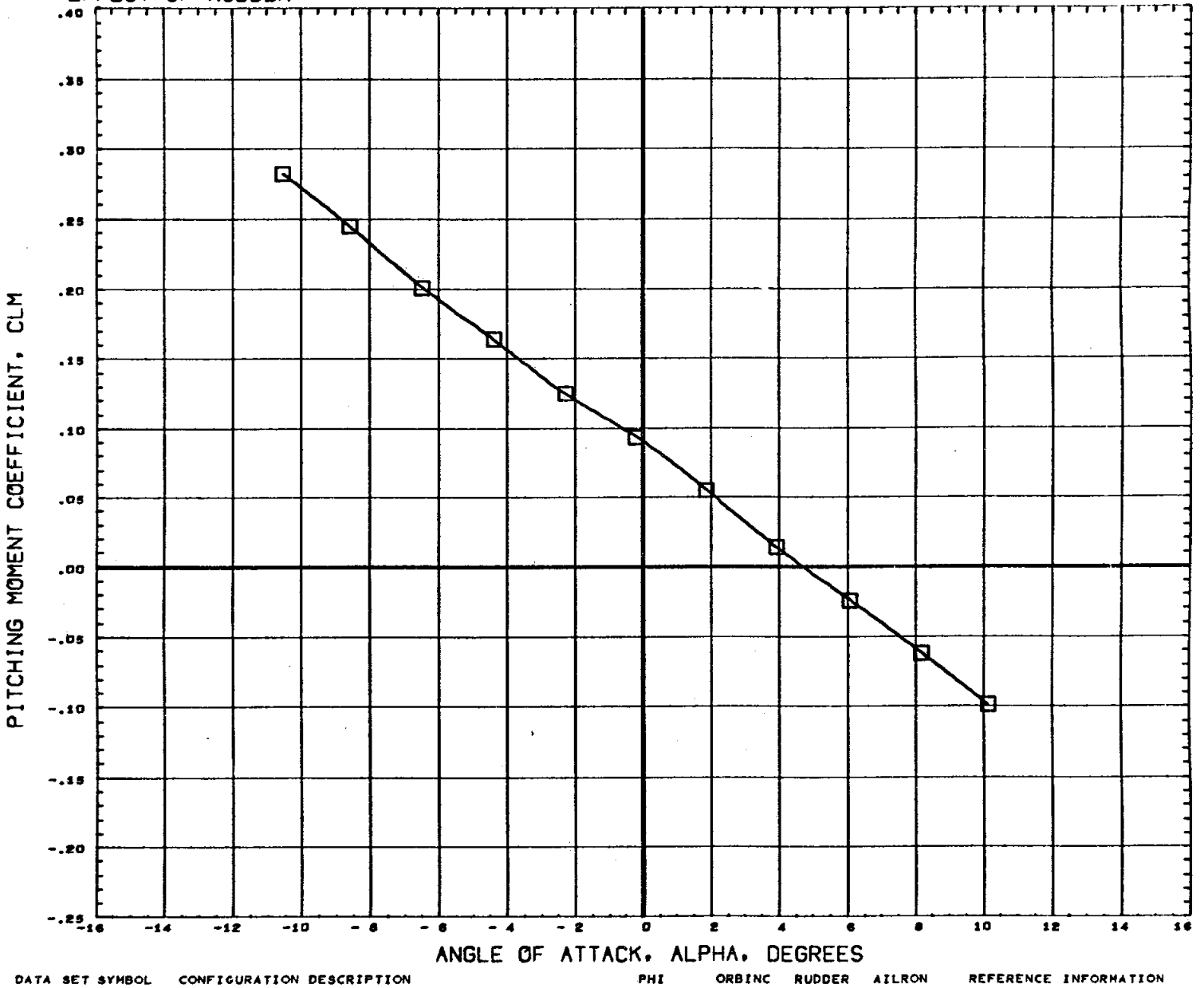
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER



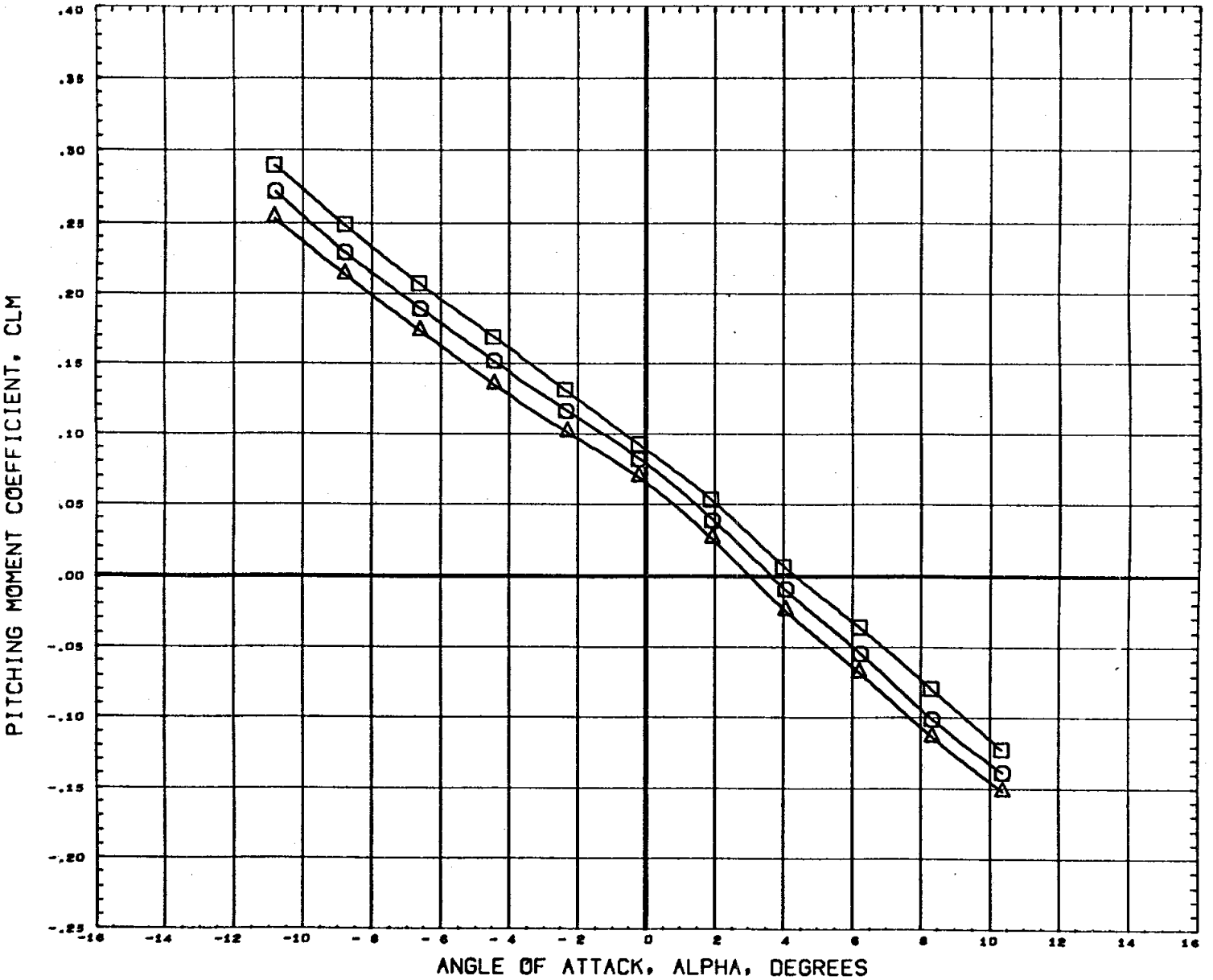
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77014)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77036)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER

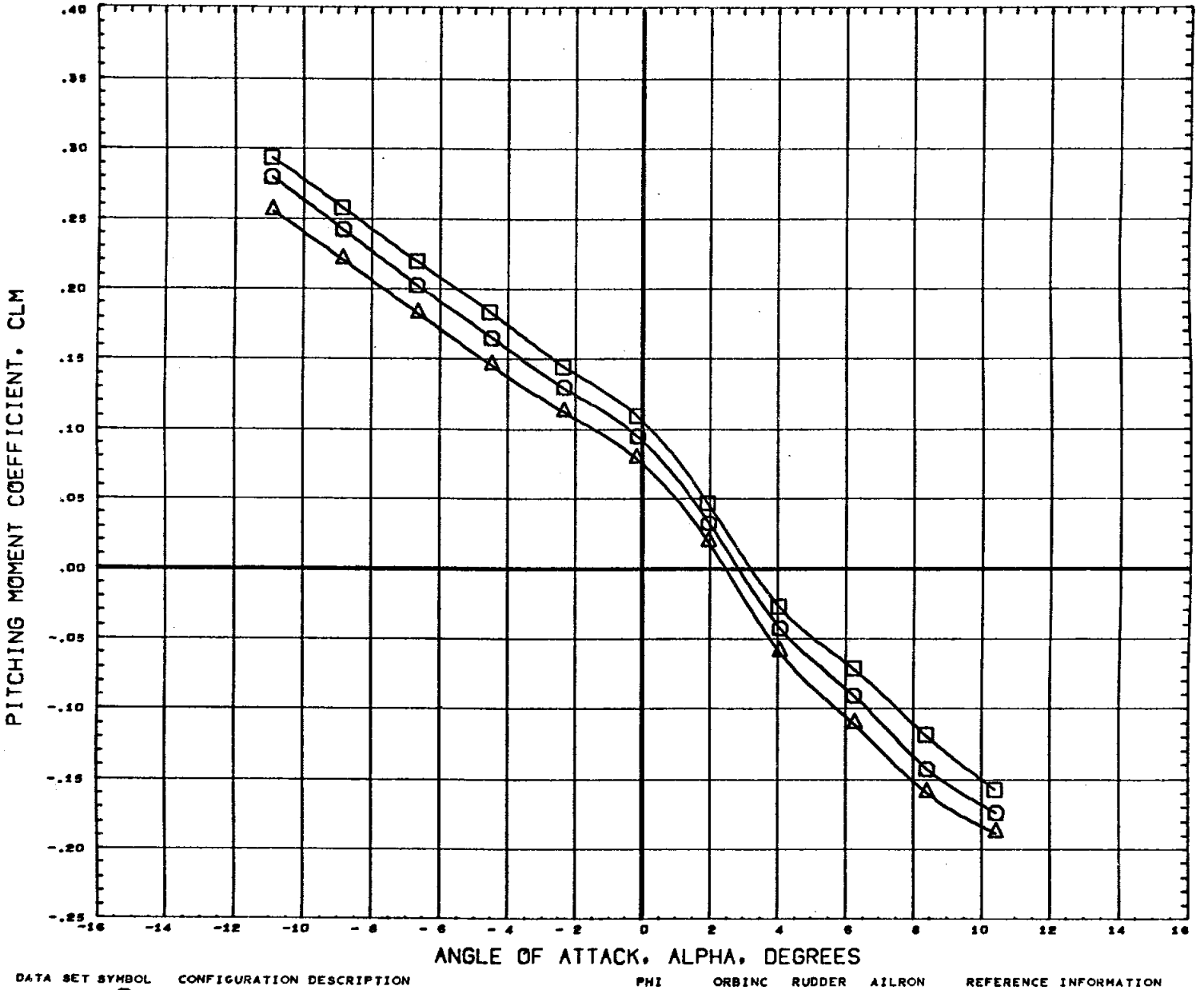


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER



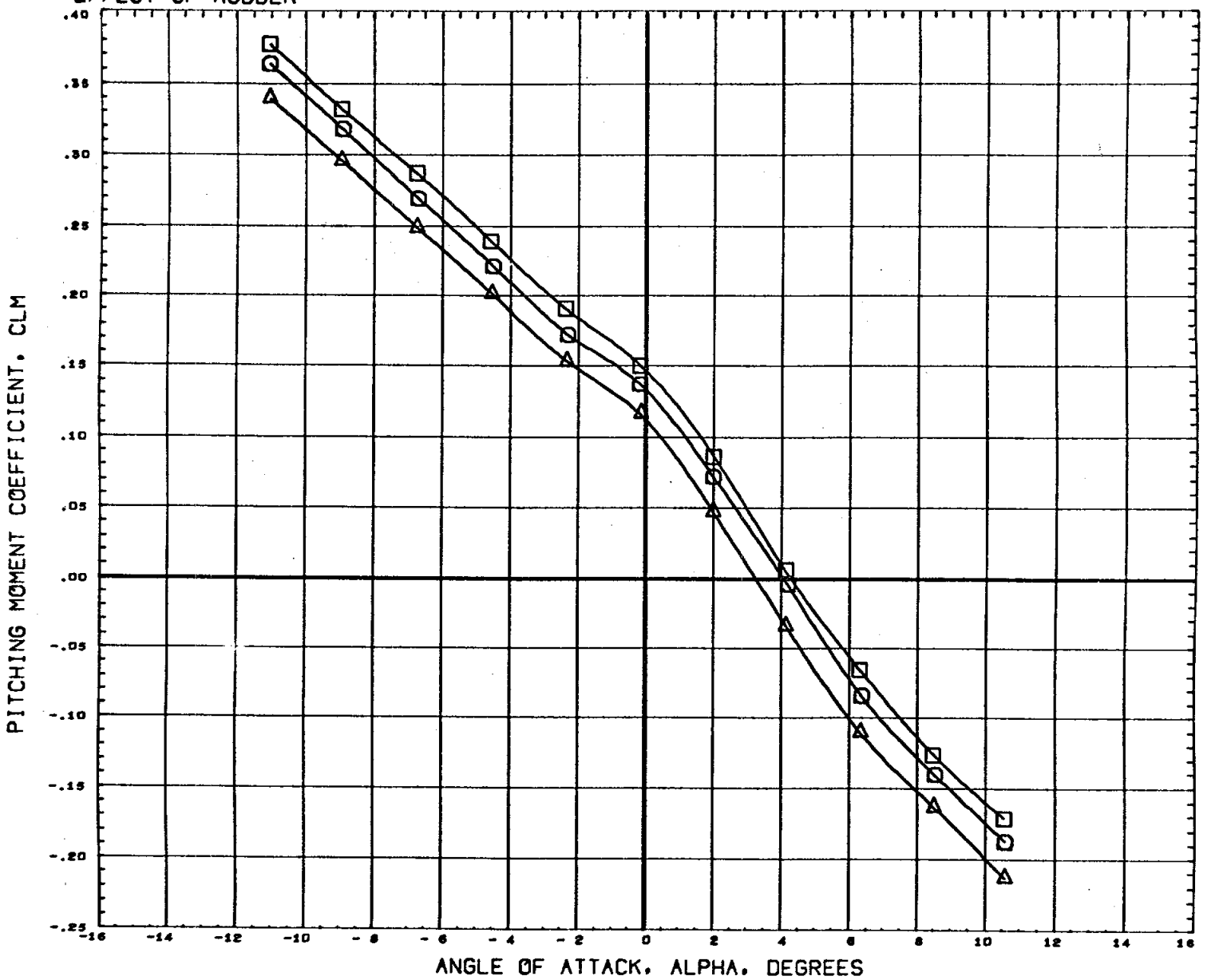
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER



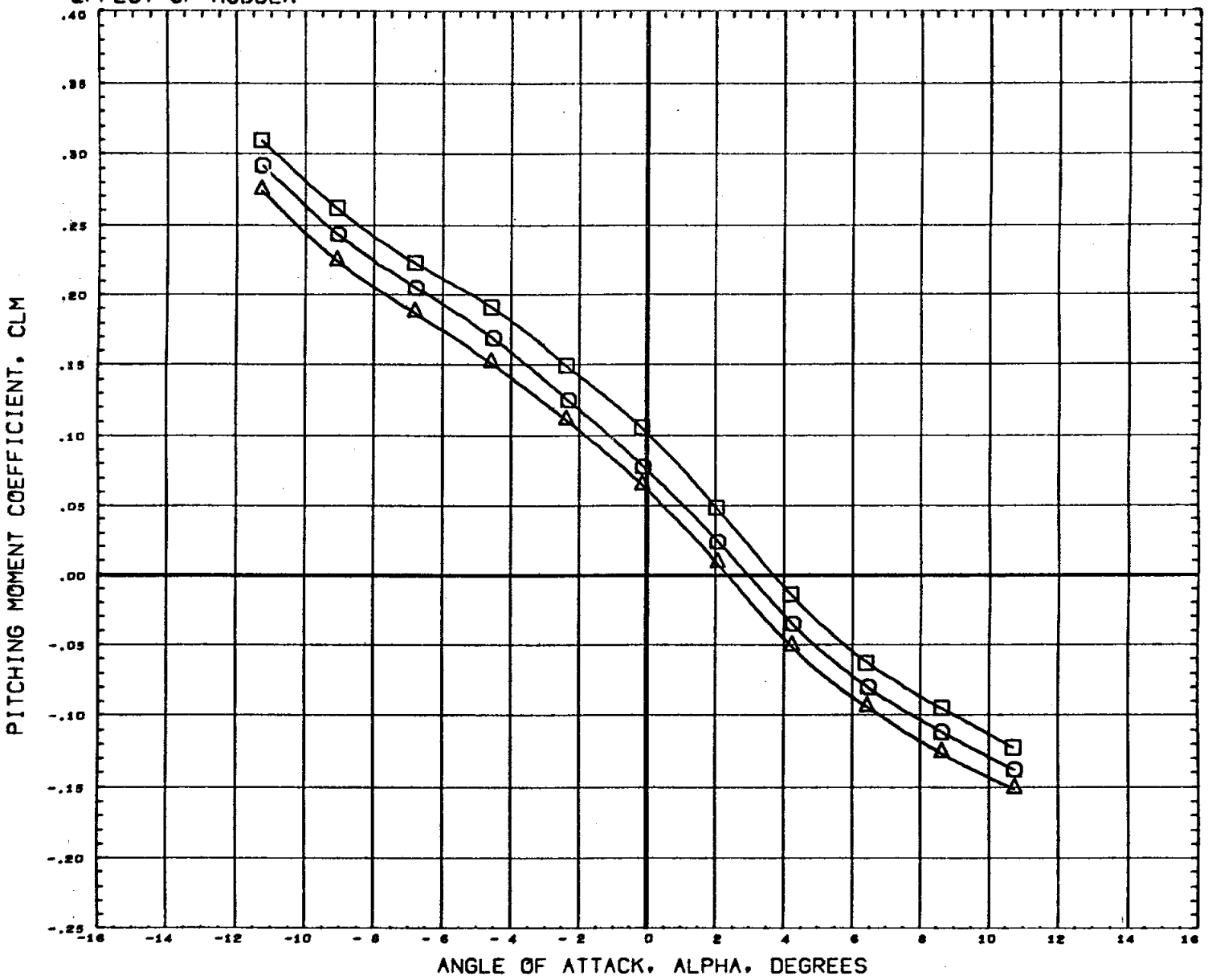
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77D14)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77D36)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77D18)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

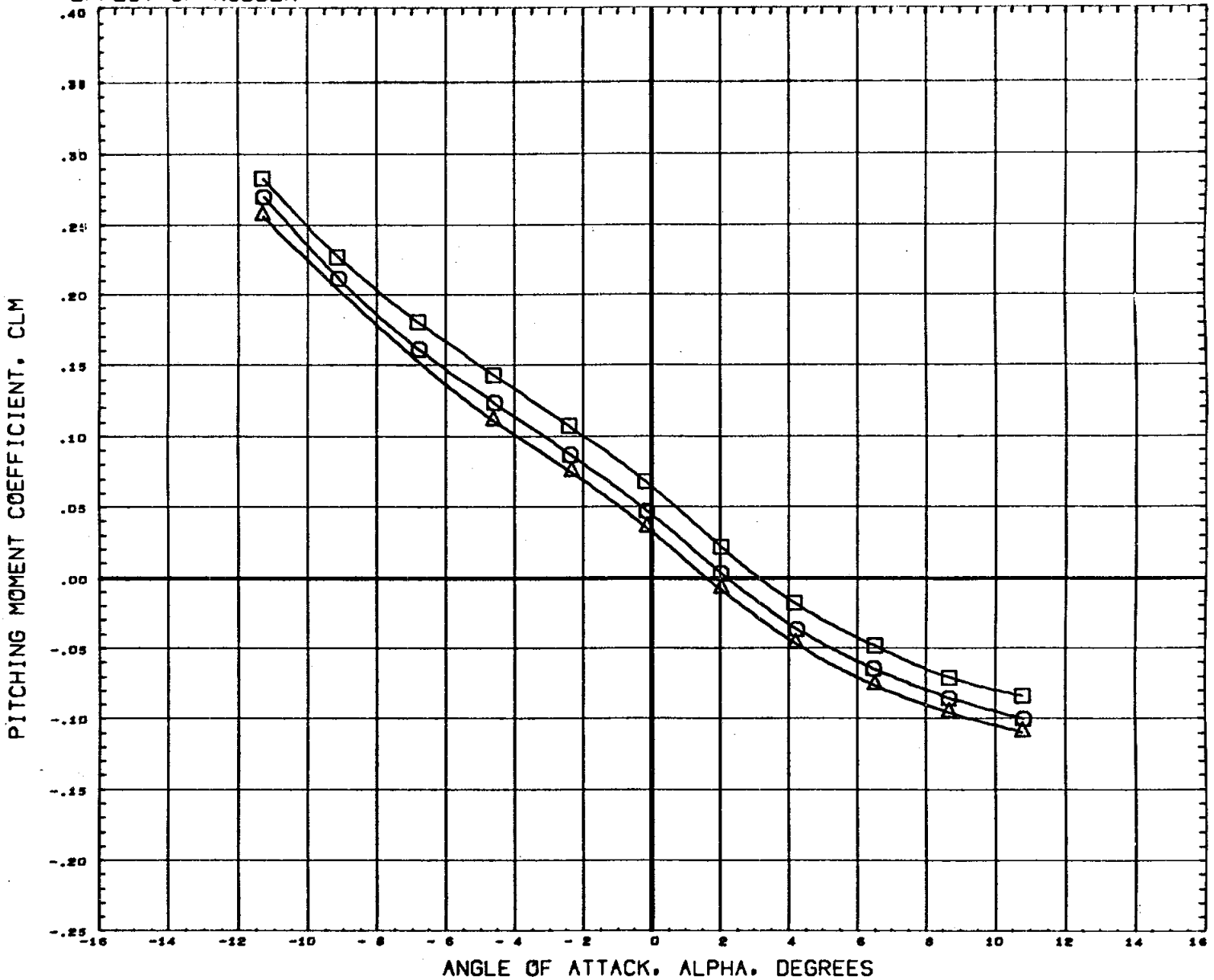


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER

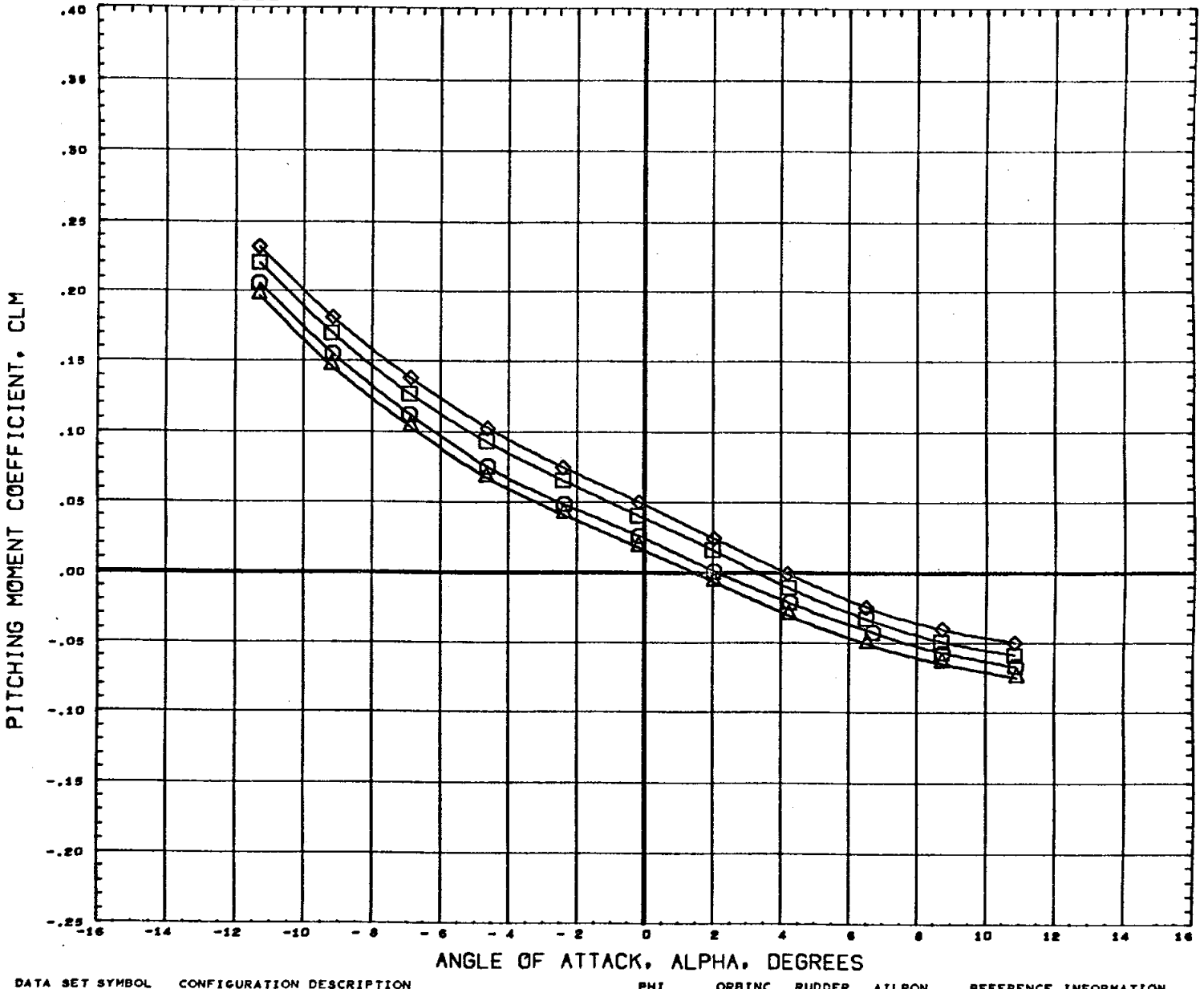


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER



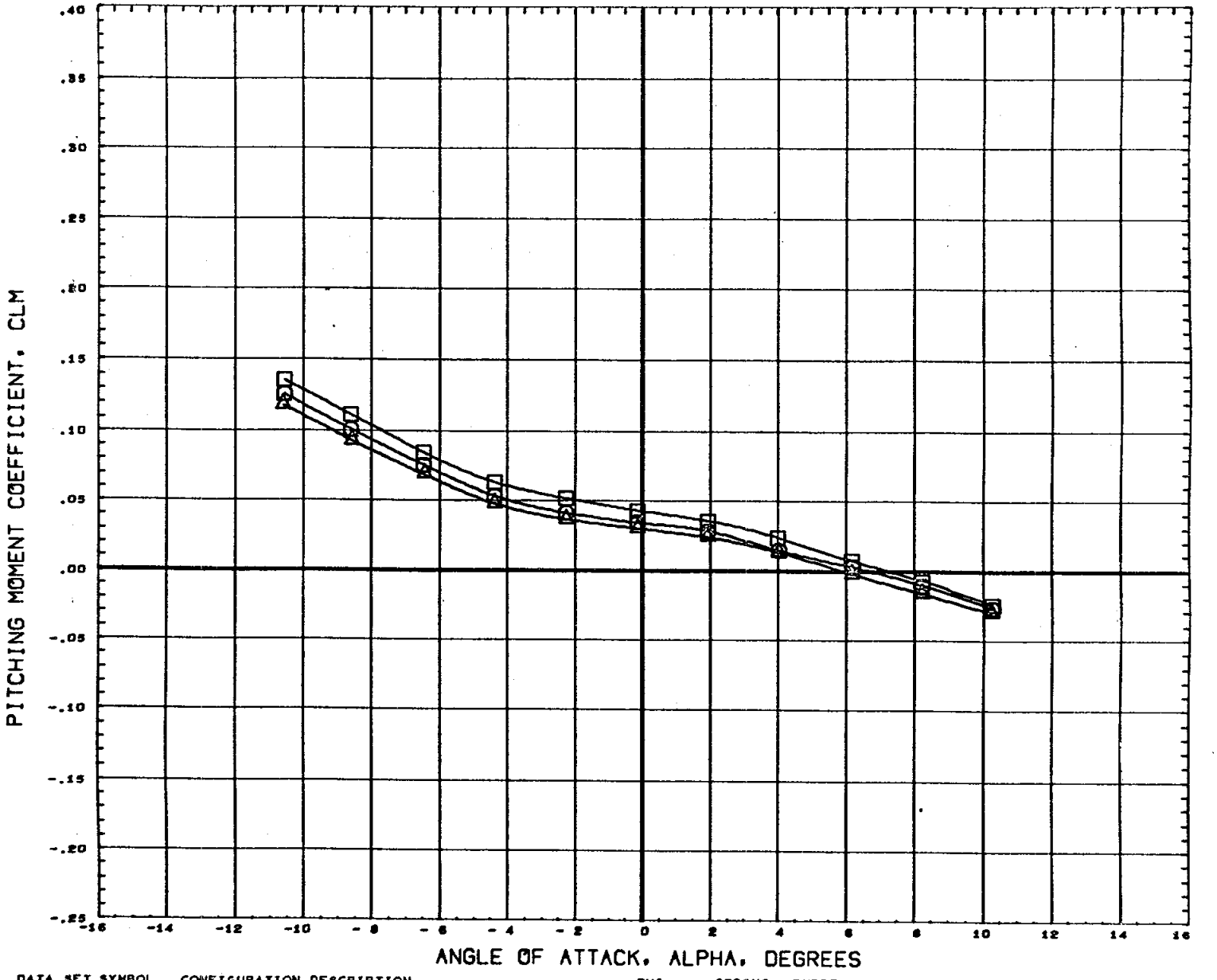
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER



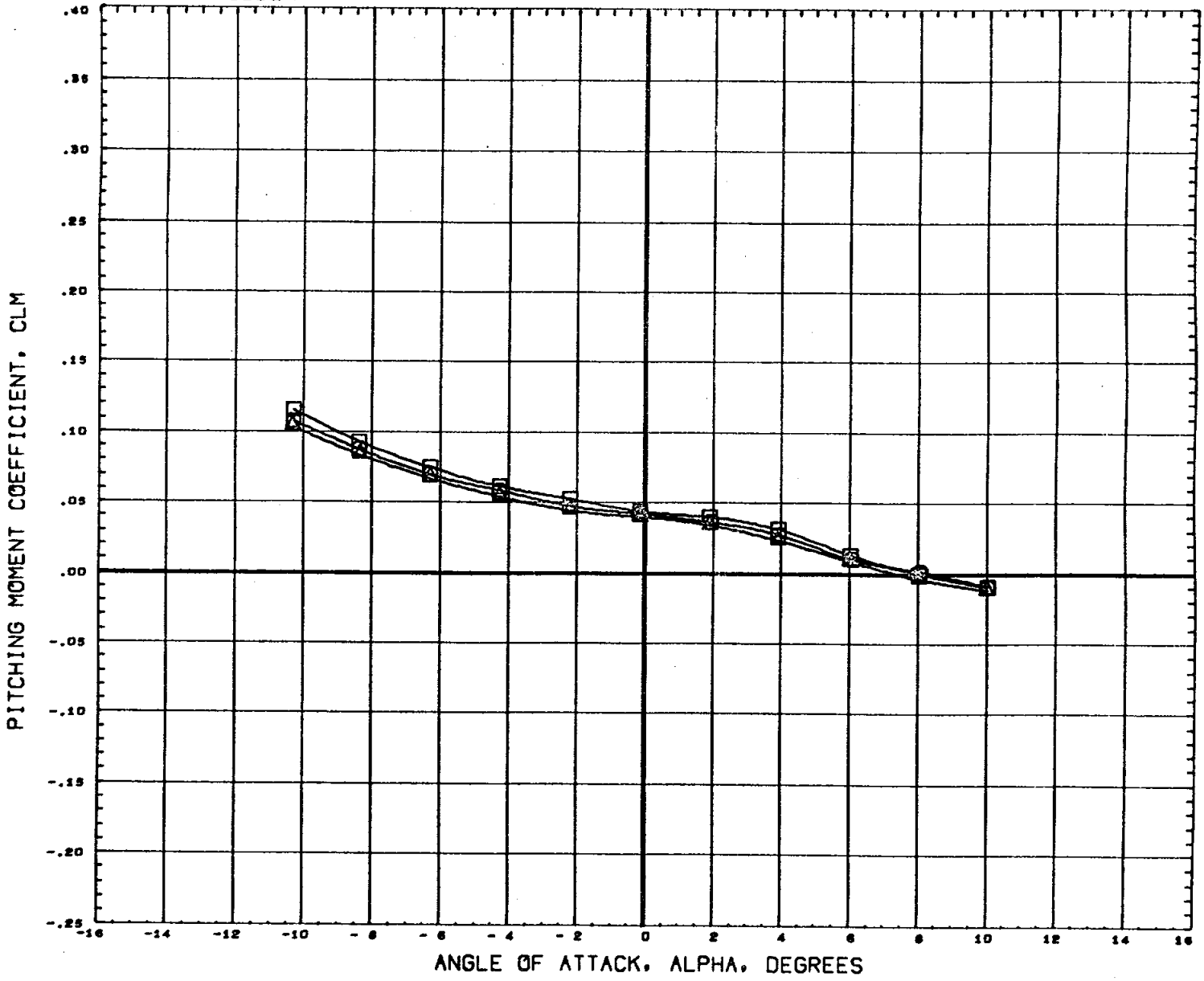
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER



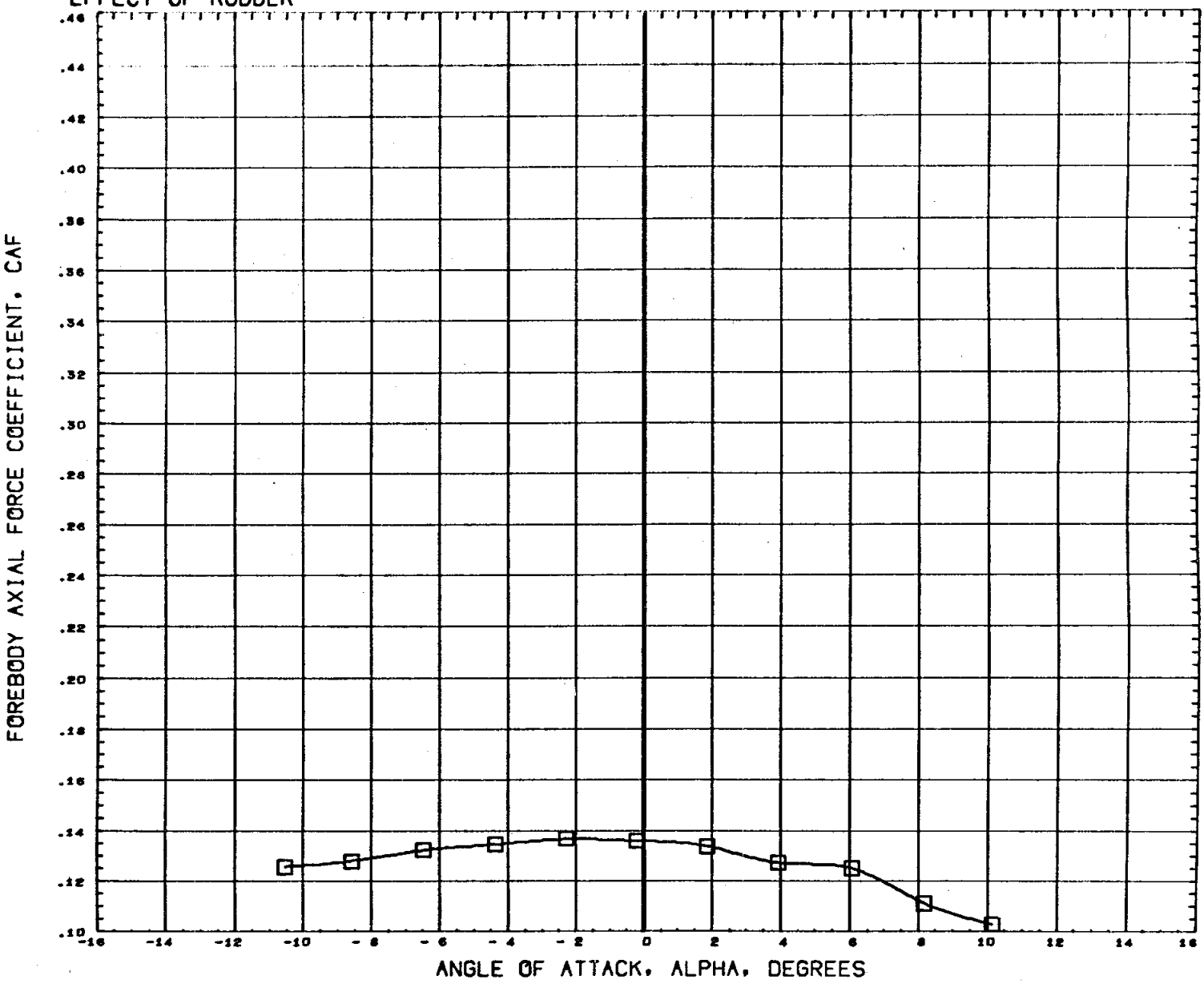
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER

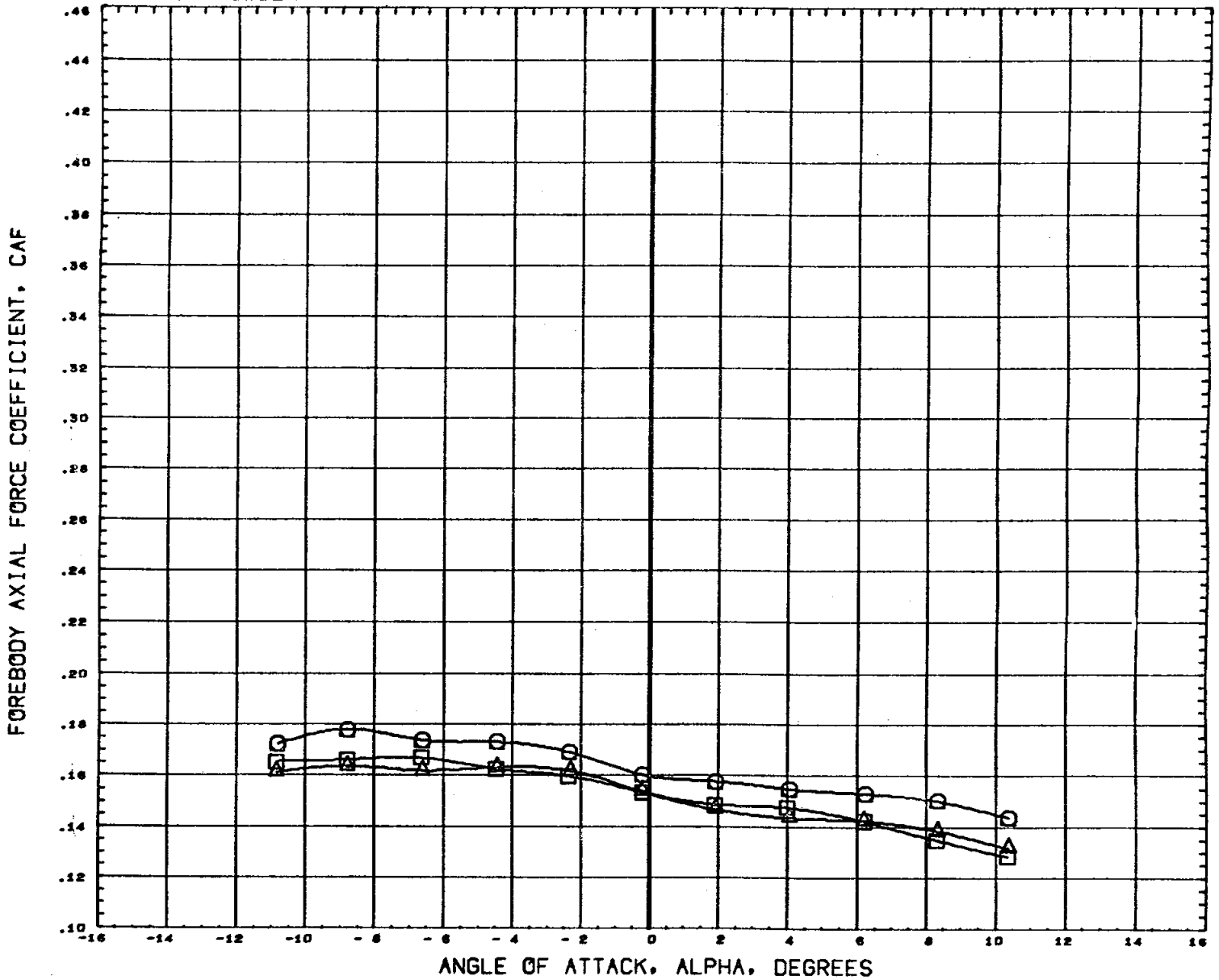


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77026)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	15.000	0.000
(C77014)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(C77036)		DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER

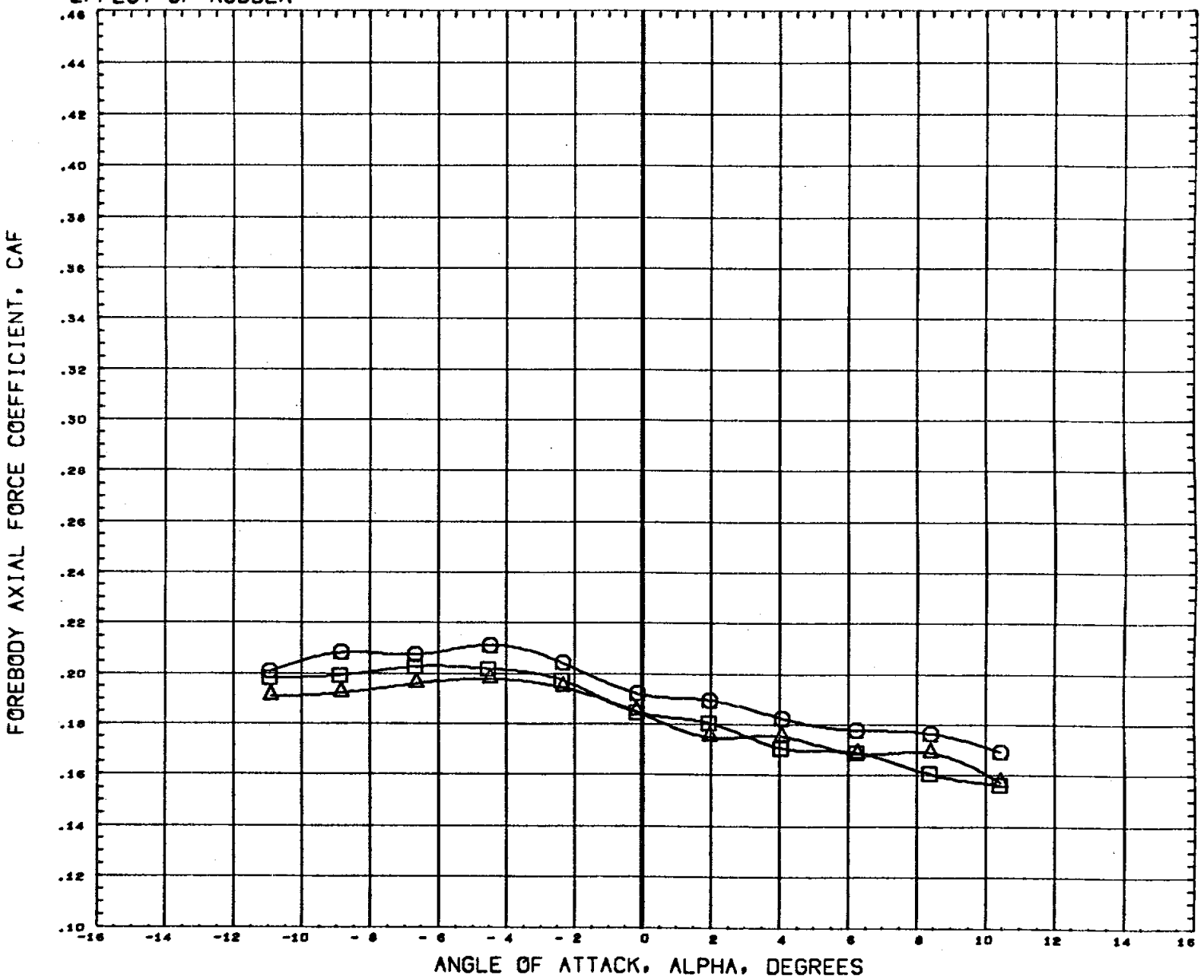


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER

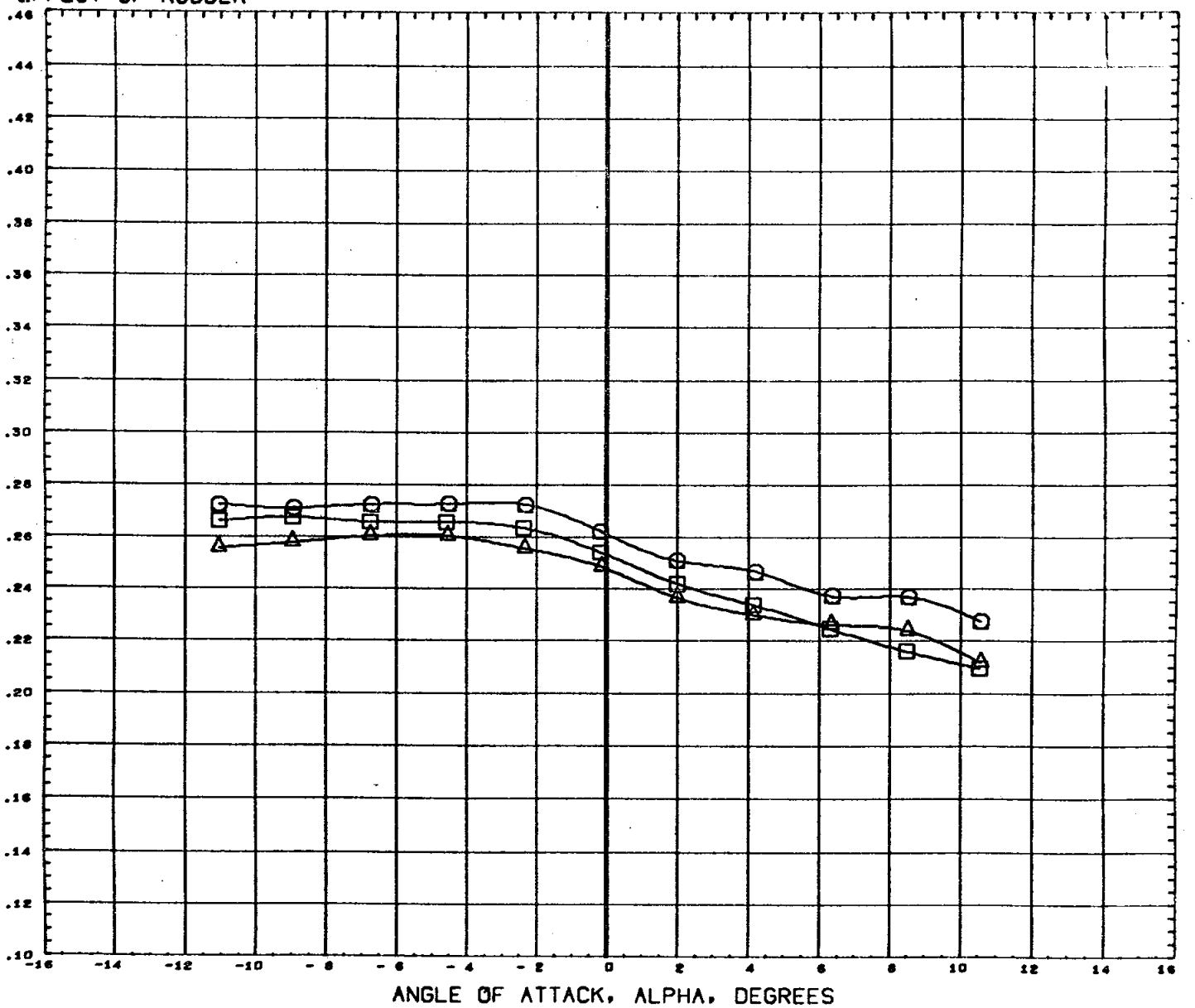


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER



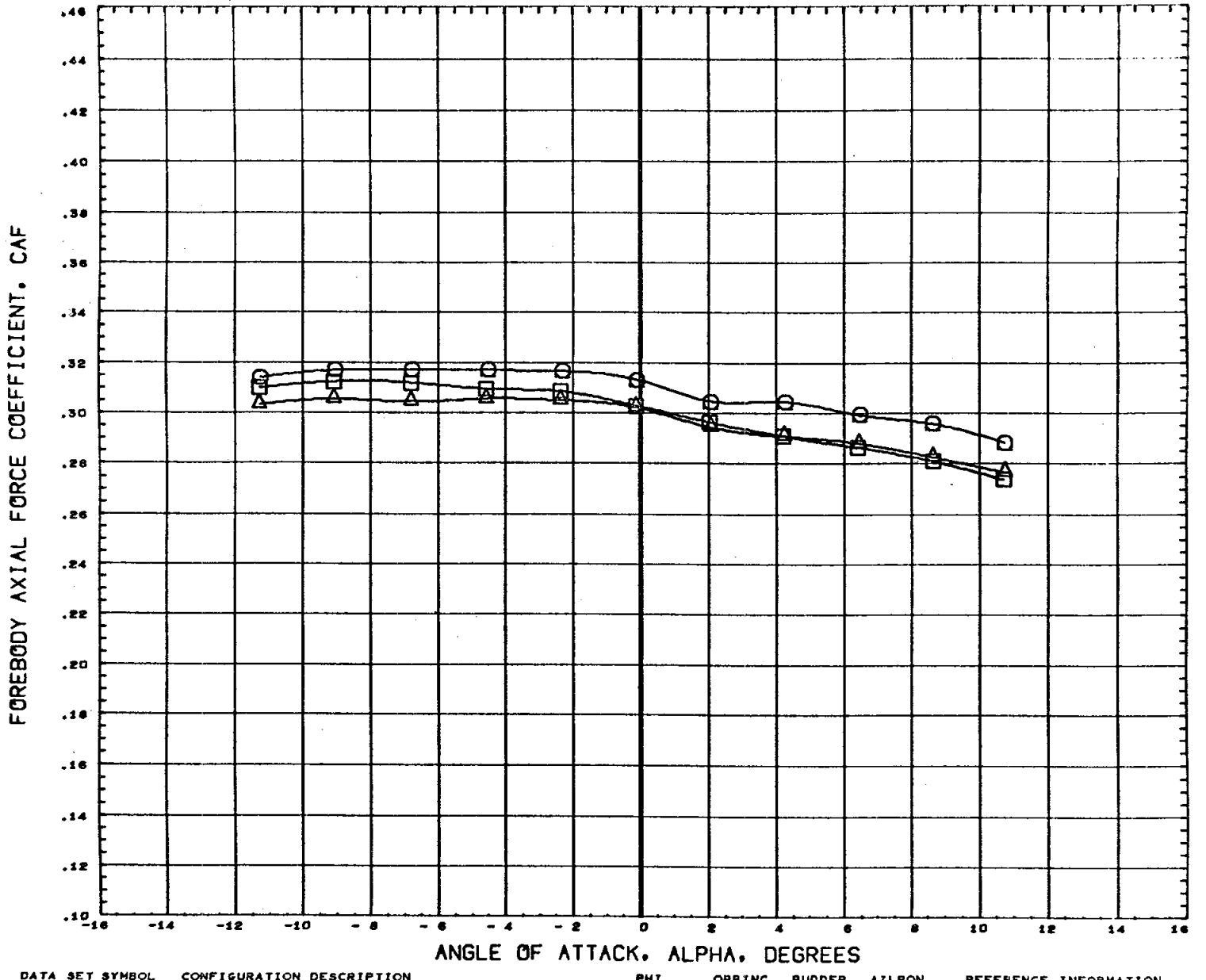
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

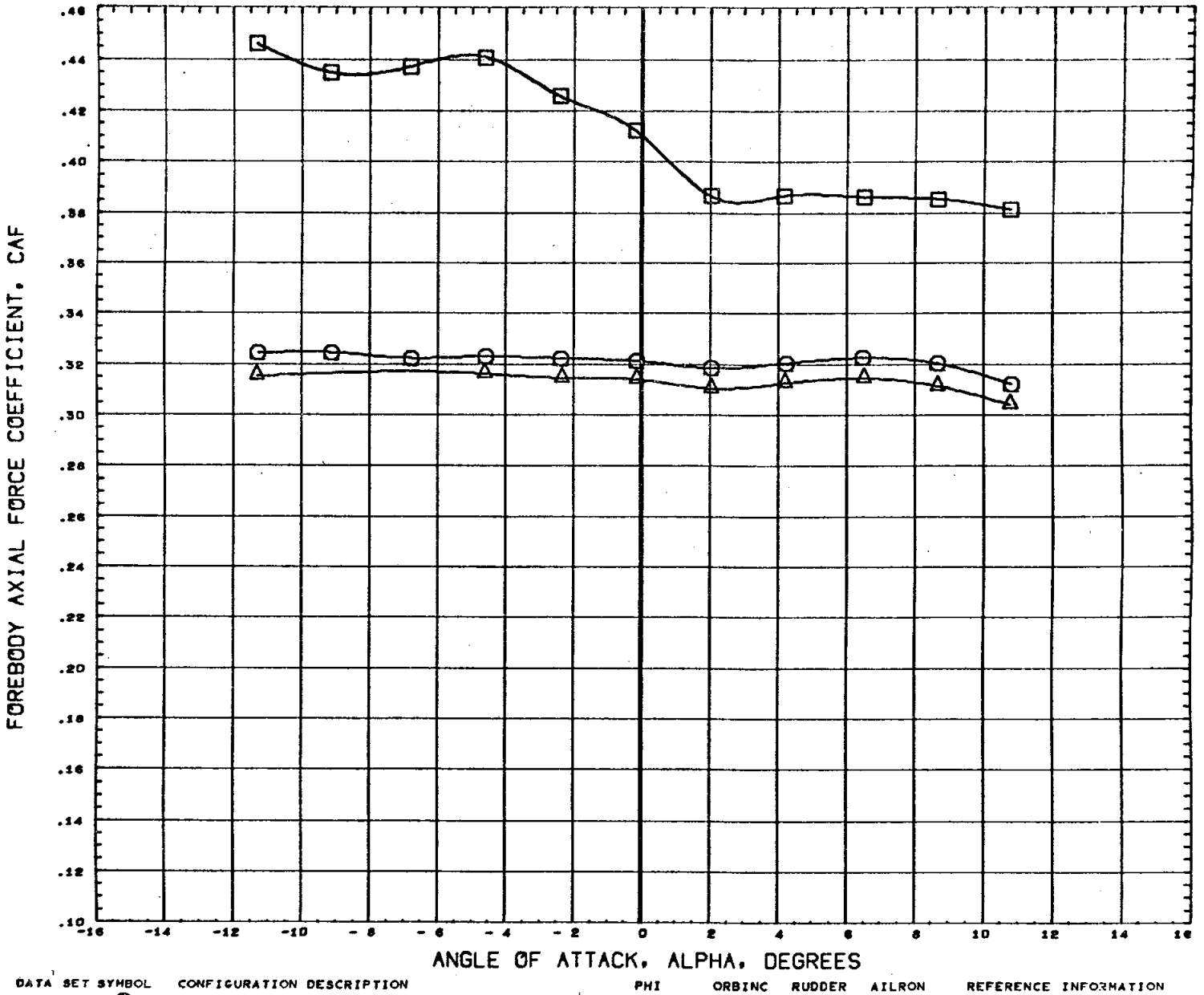


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER



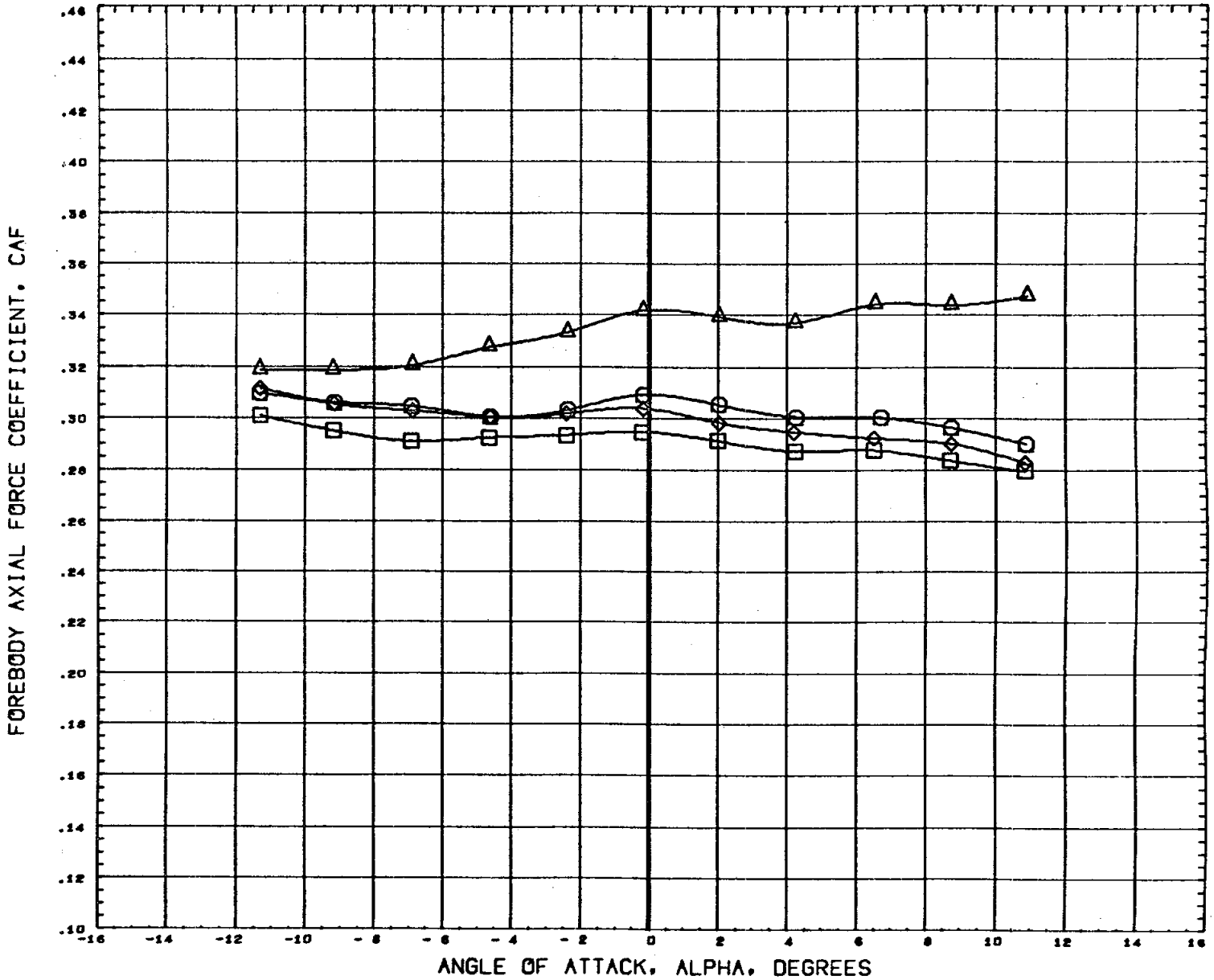
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER

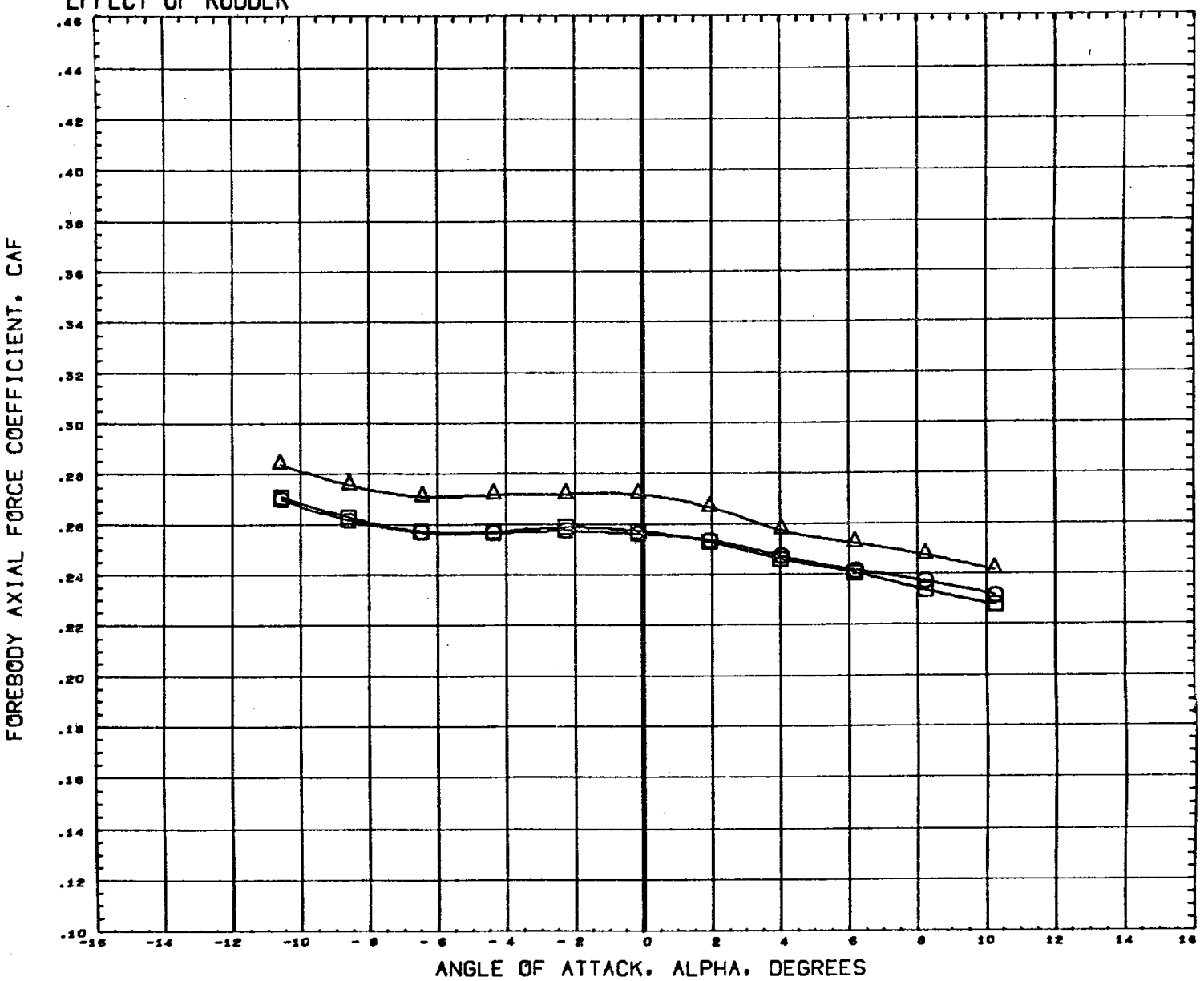


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000
(C77018)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER



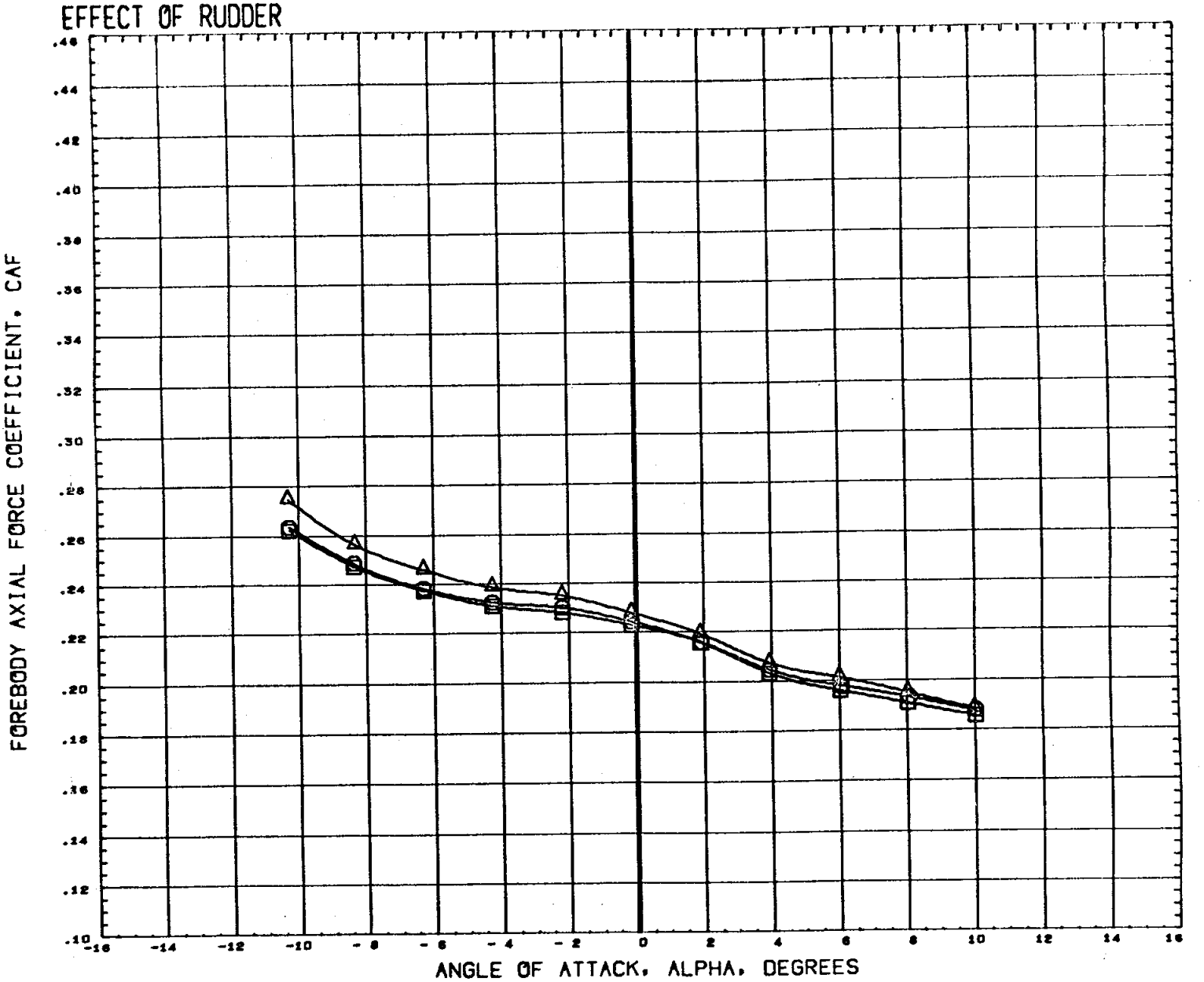
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER



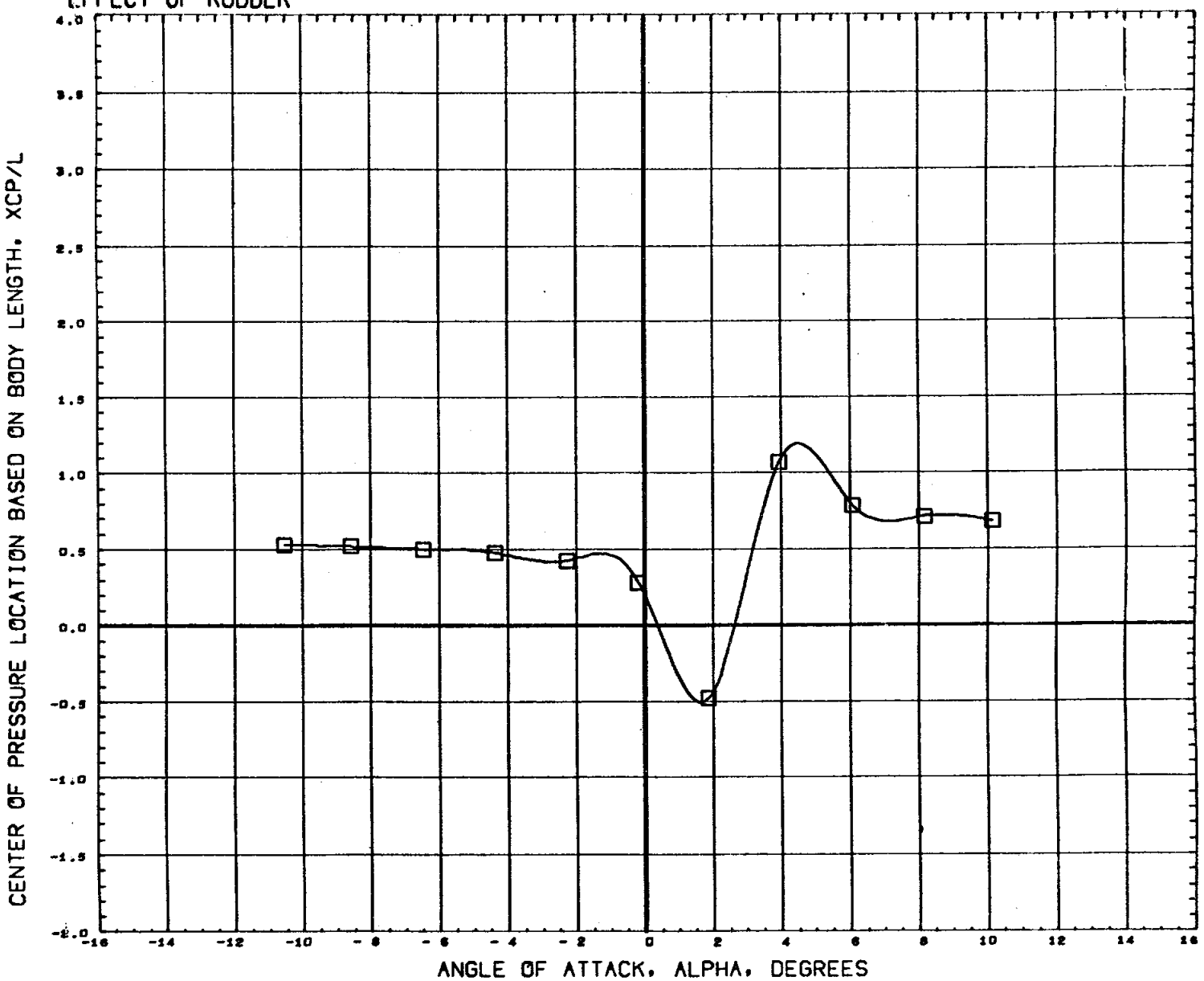
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER

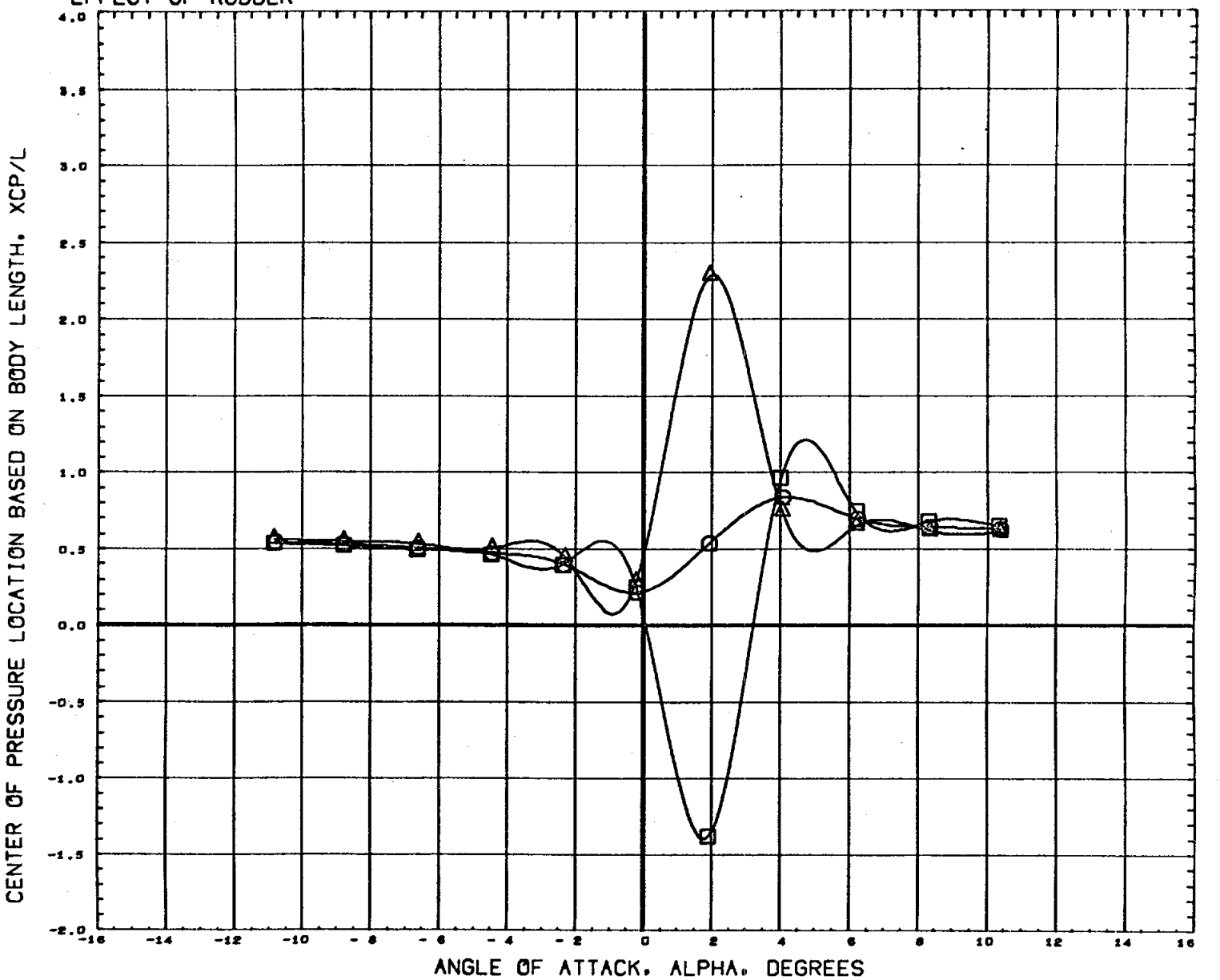


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	15.000	0.000
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER

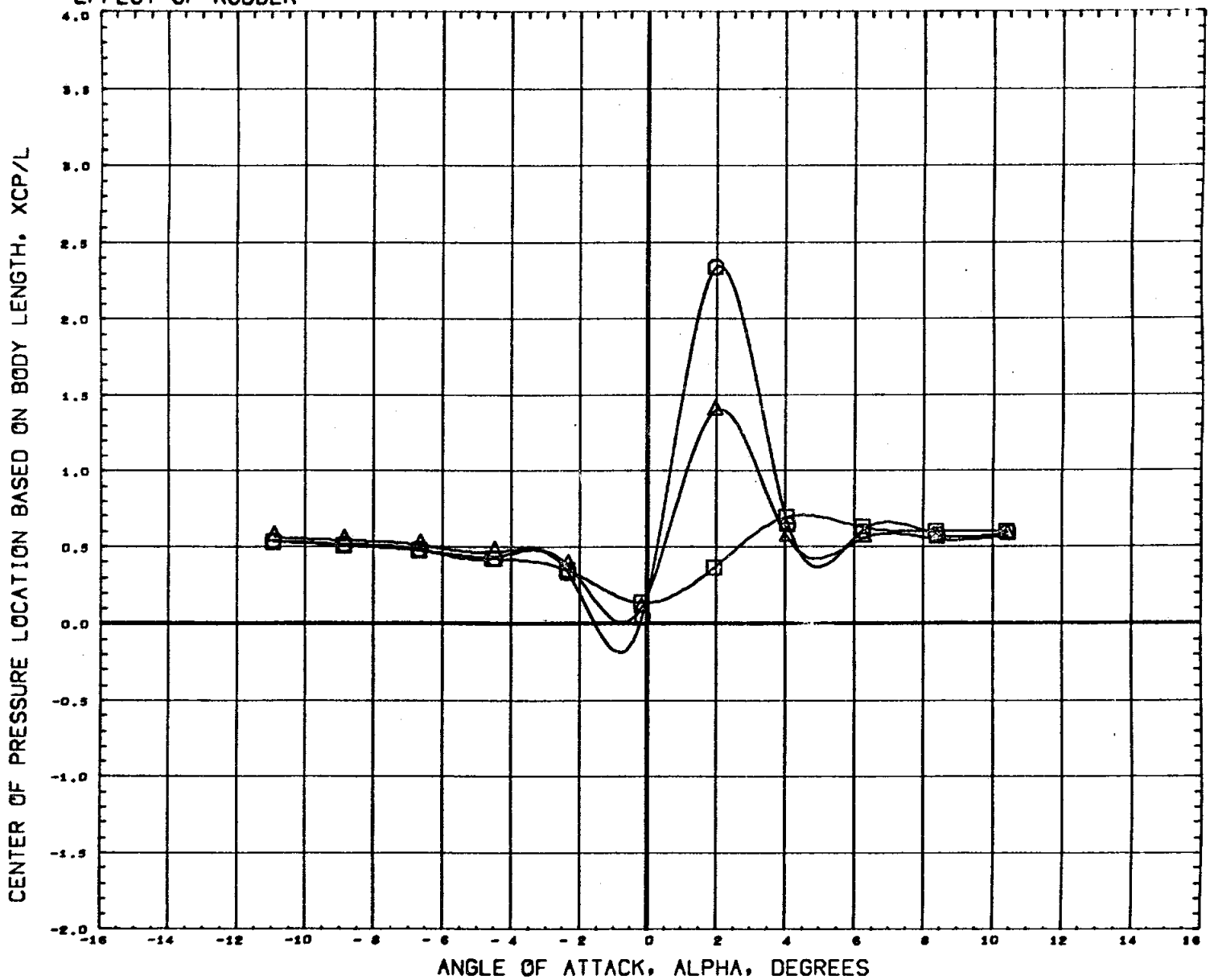


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER

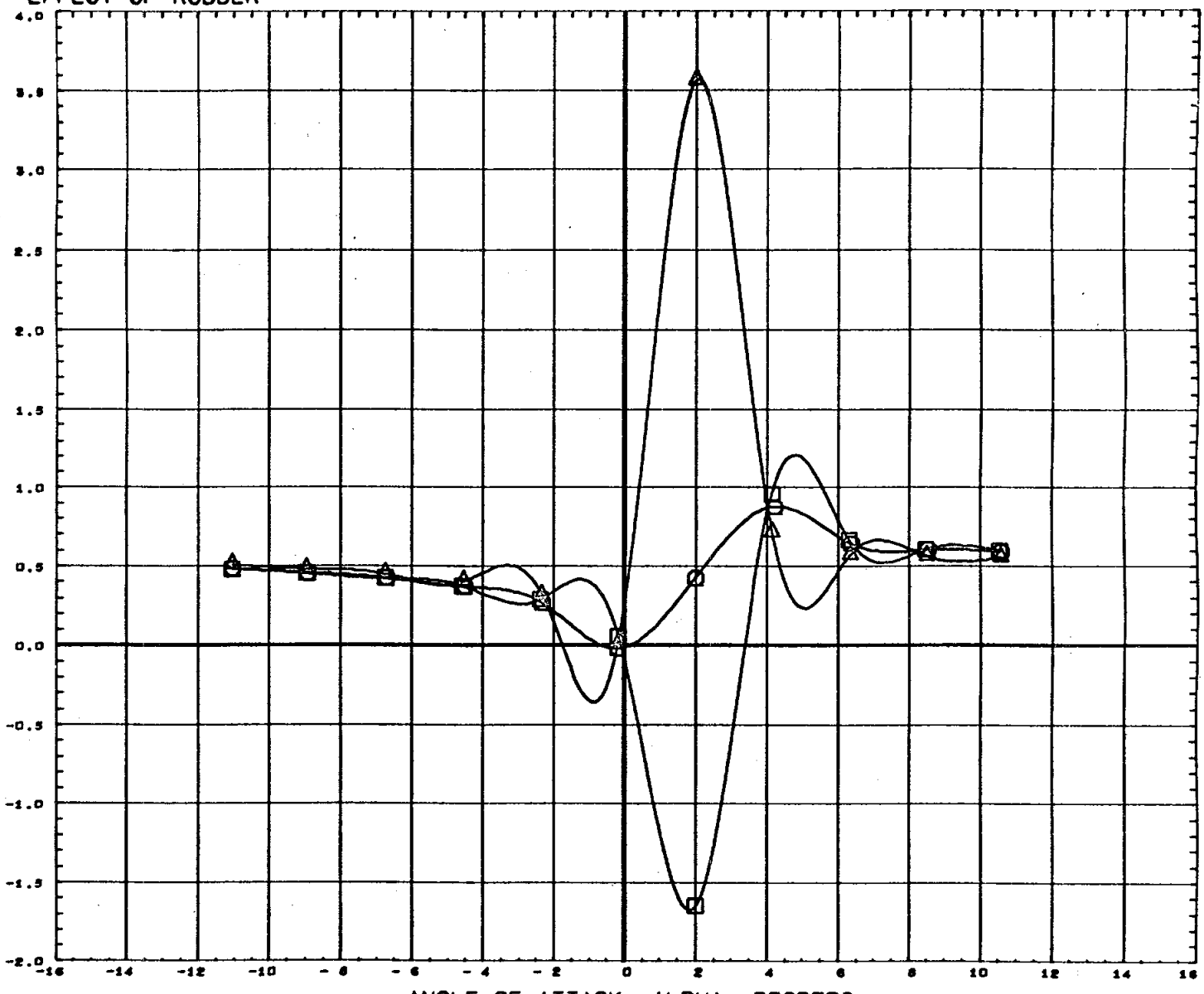


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER

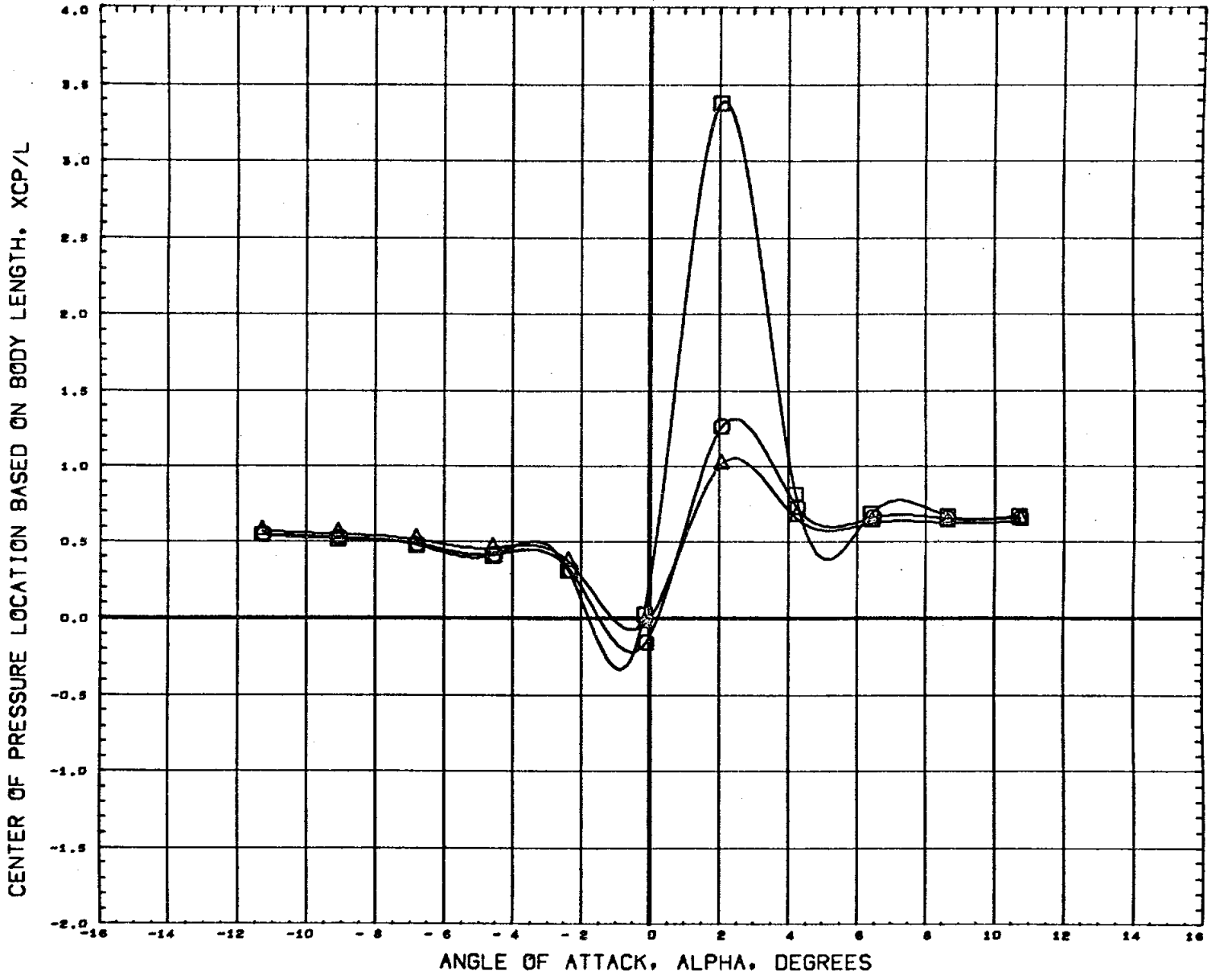


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

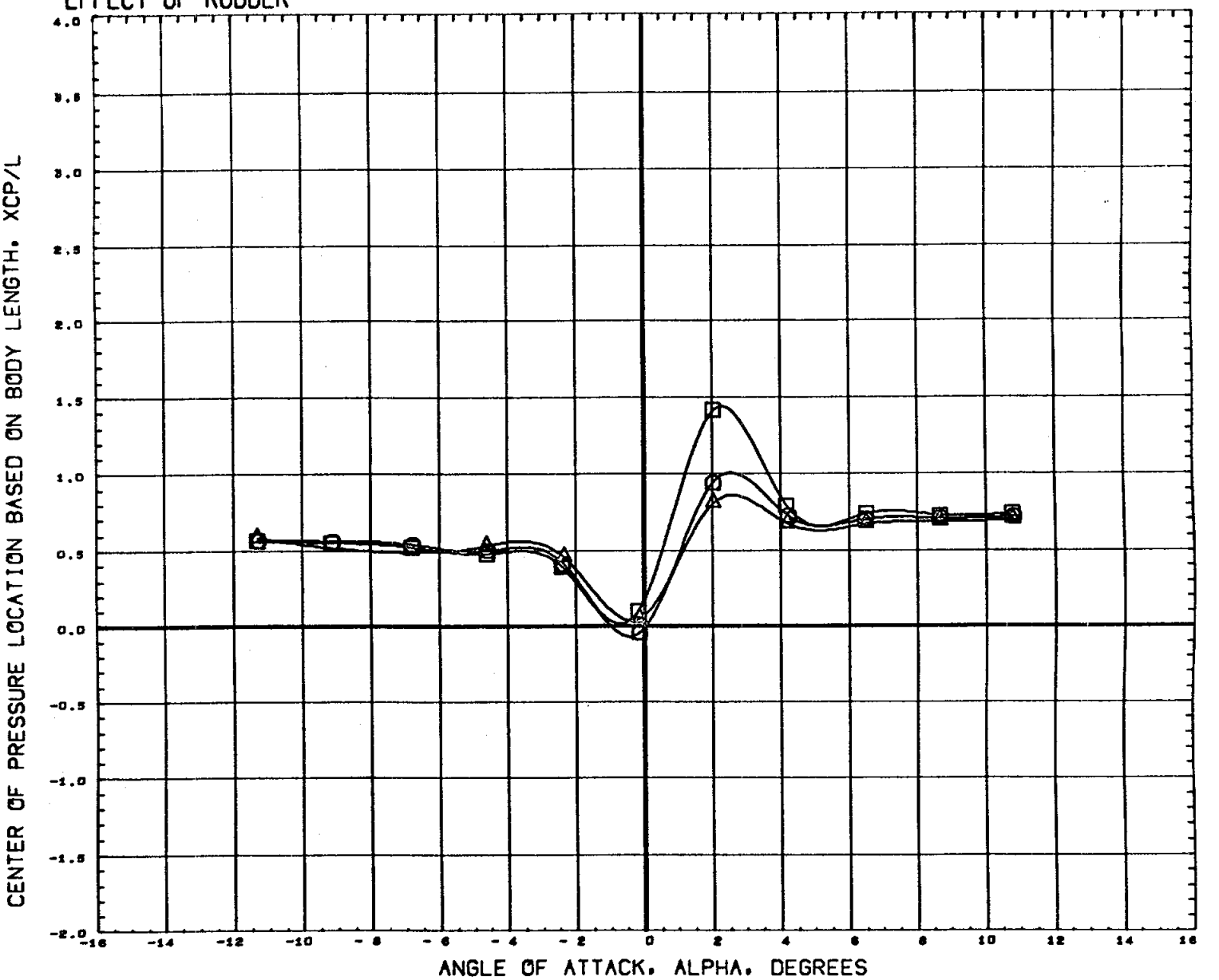


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER

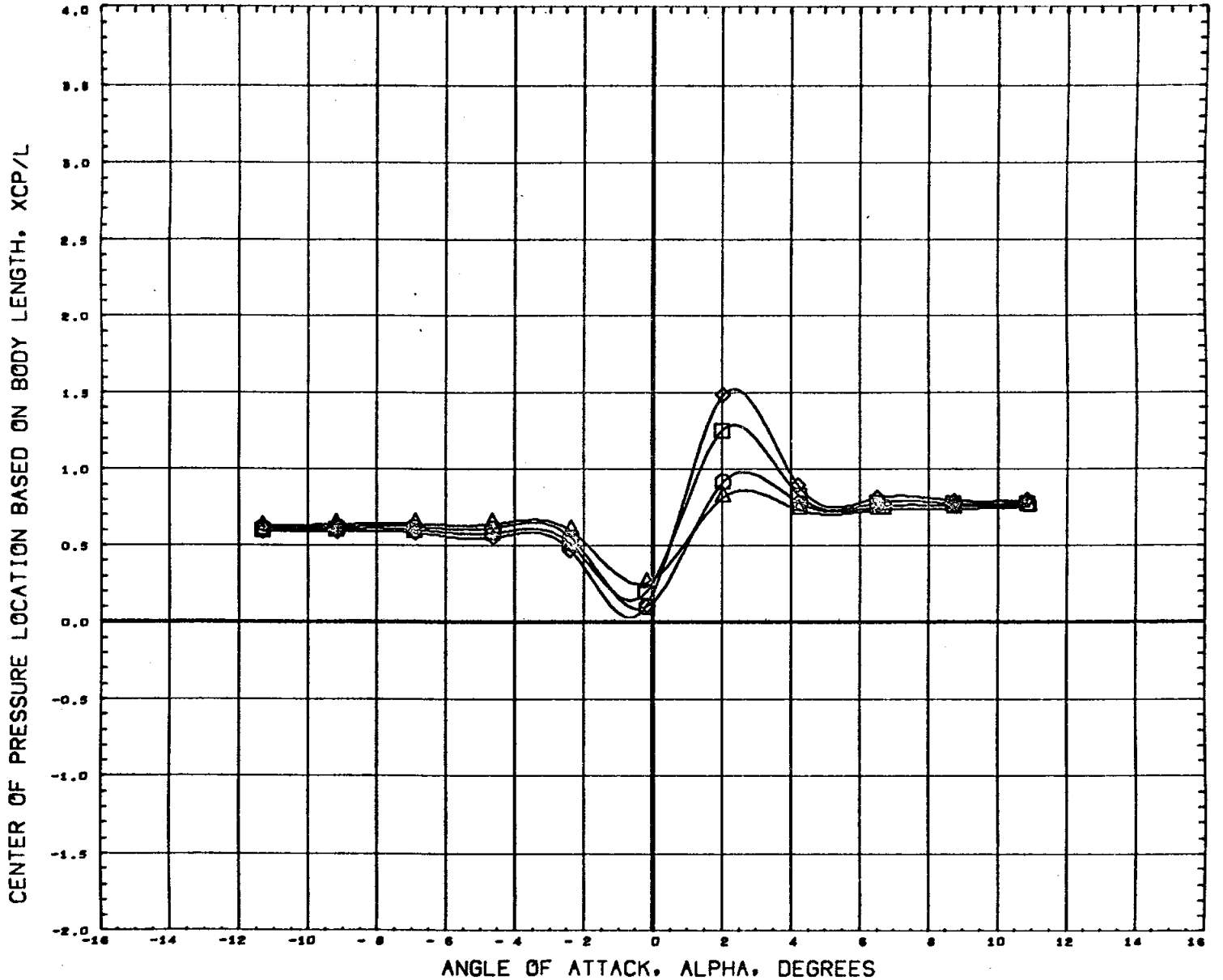


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER

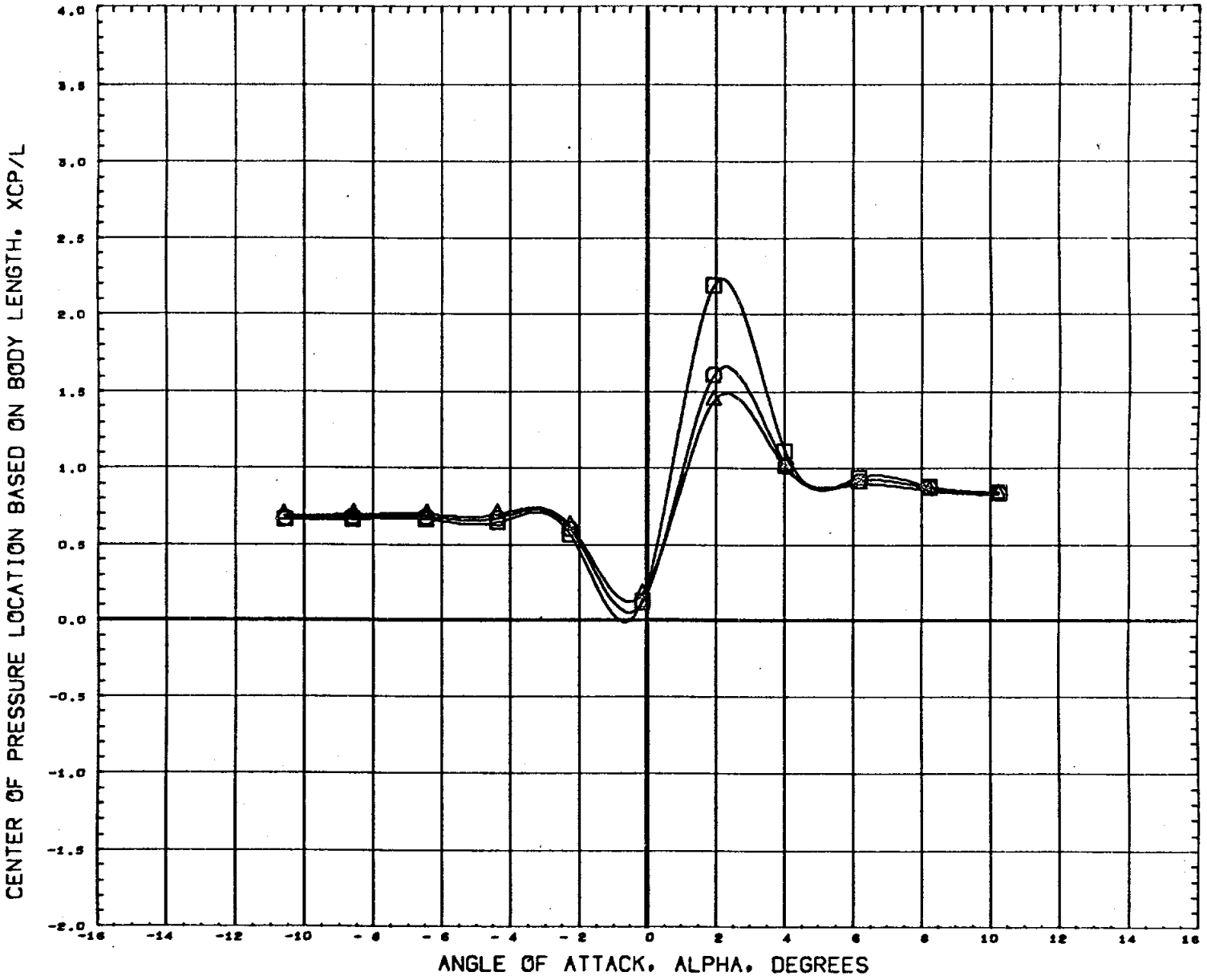


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

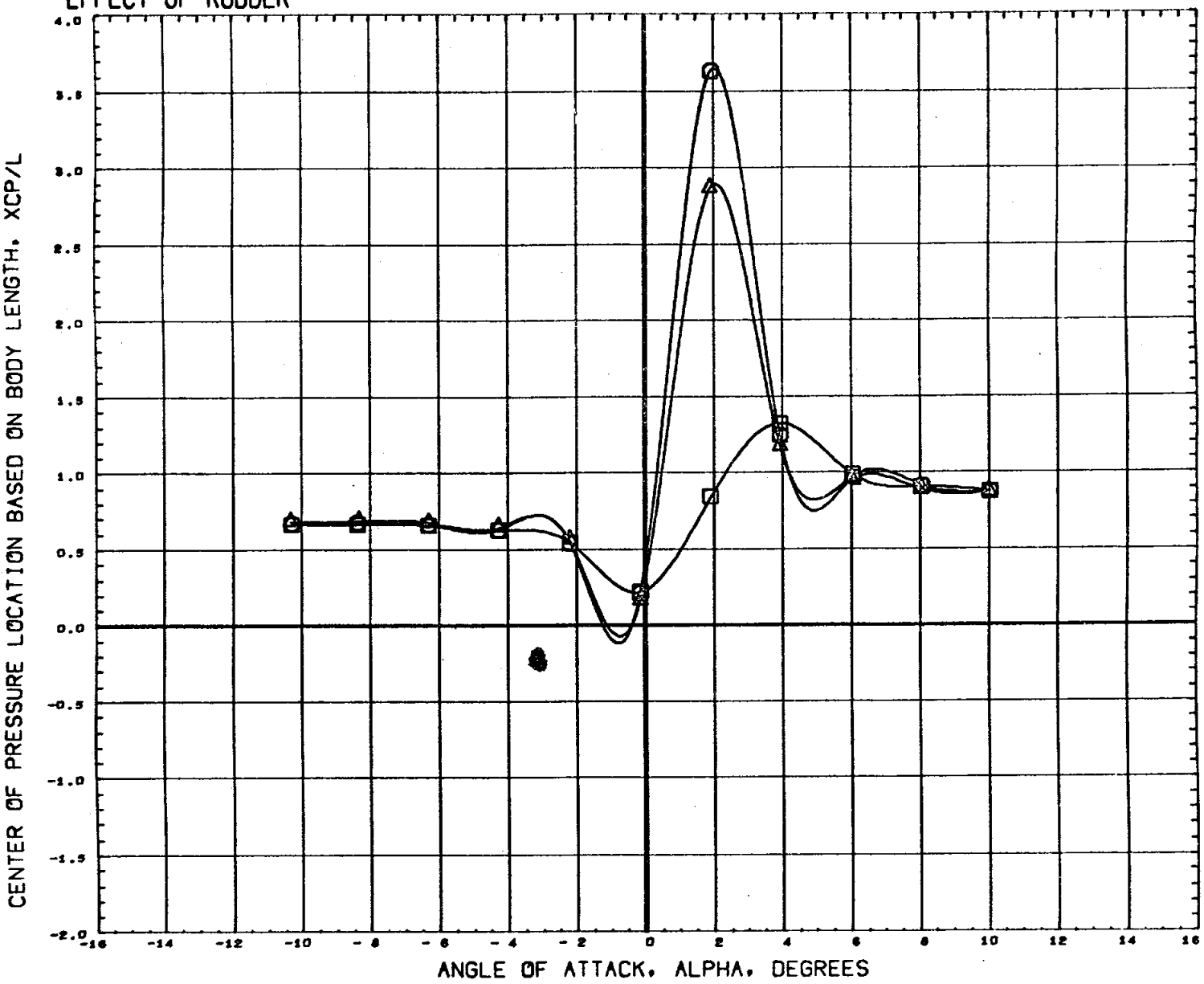


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER

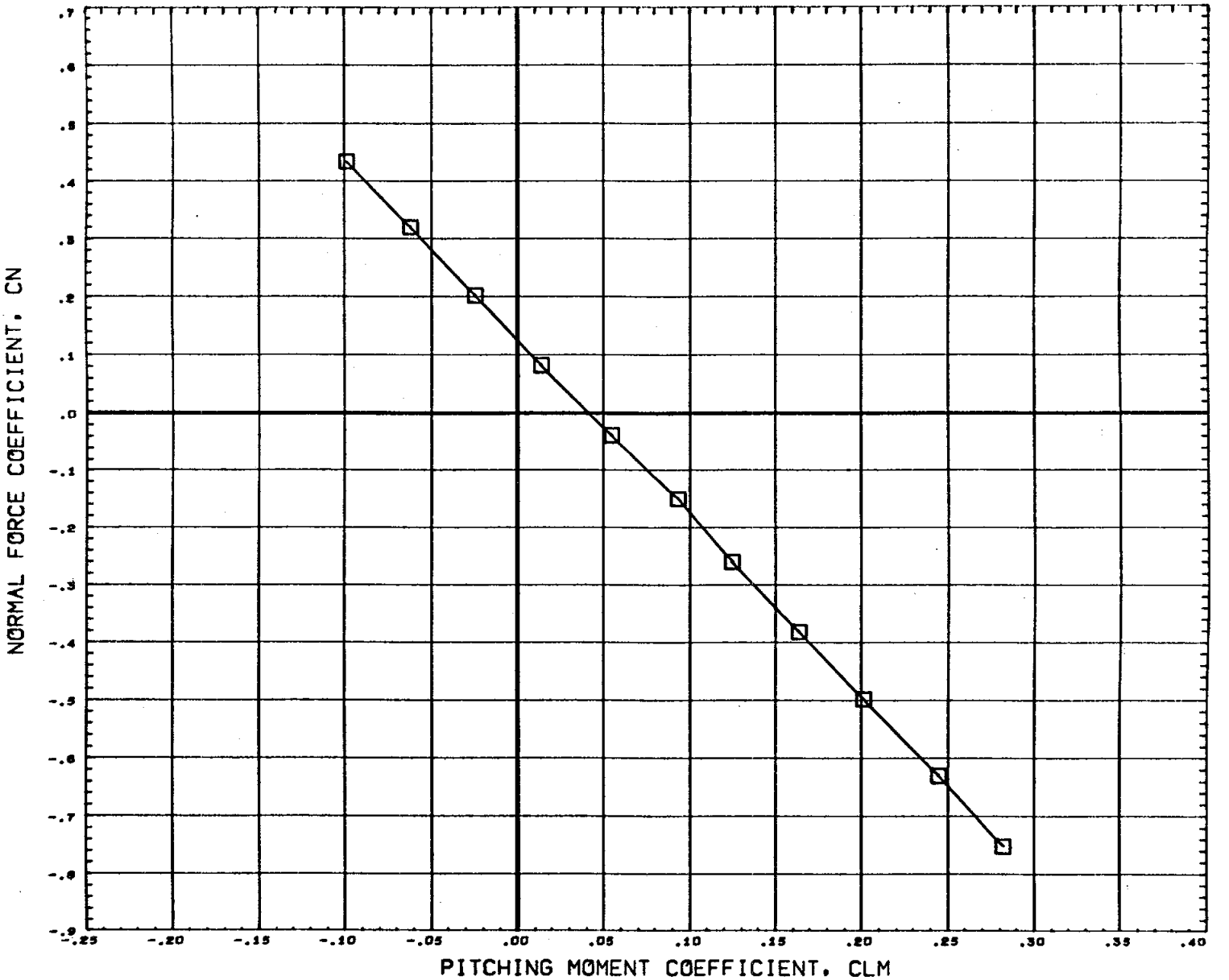


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	⊠	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER

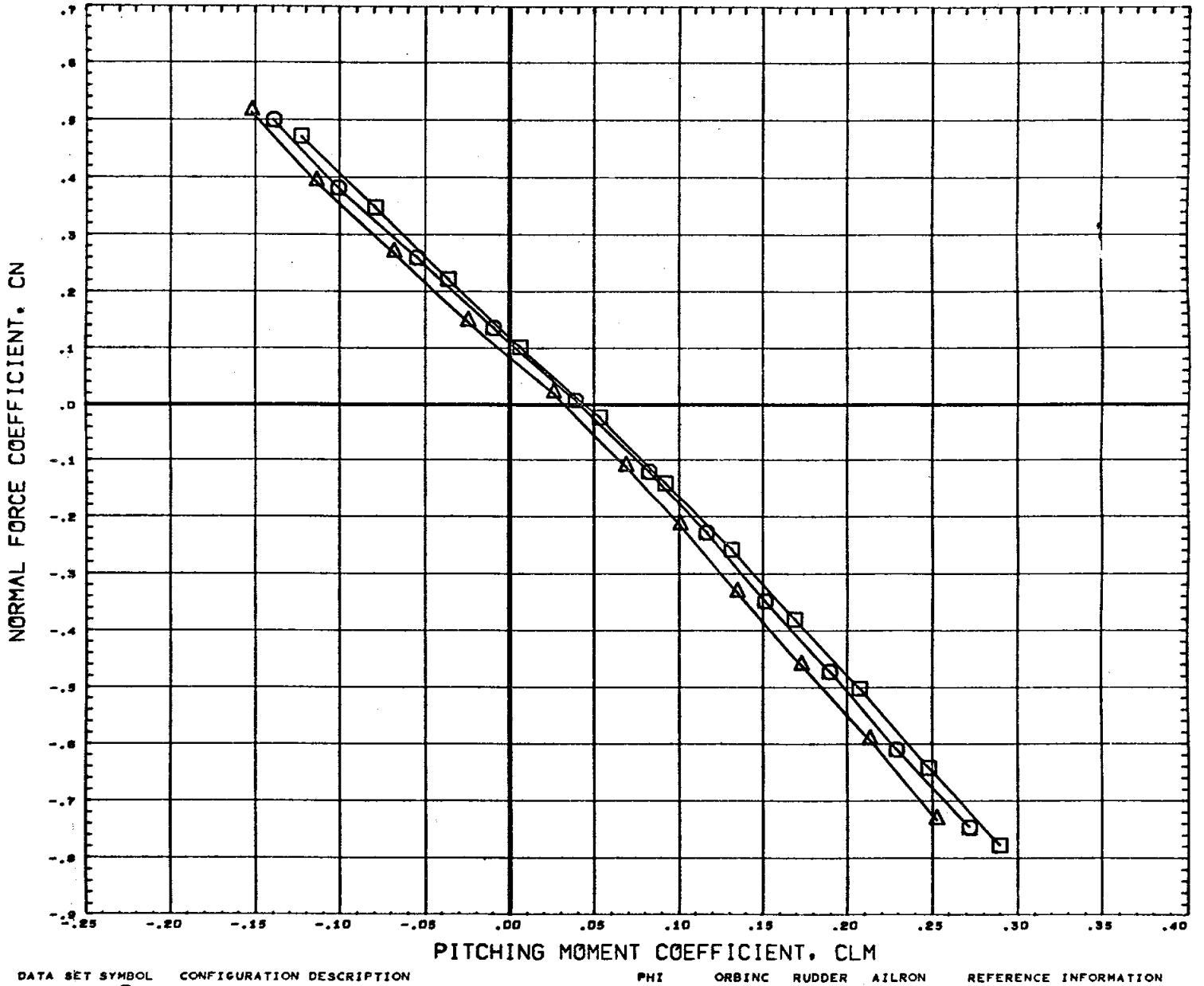


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	15.000	0.000
(C77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER

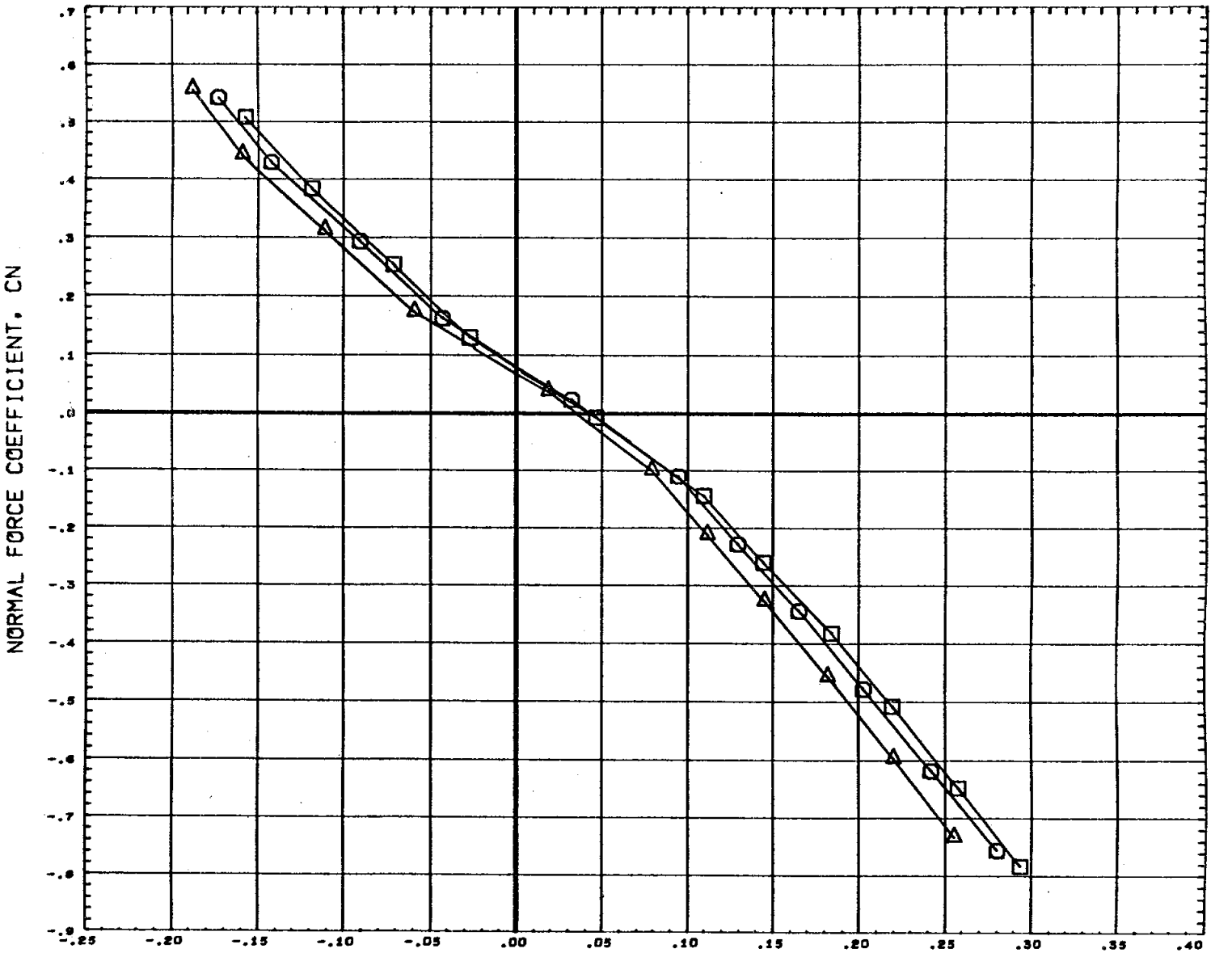


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER

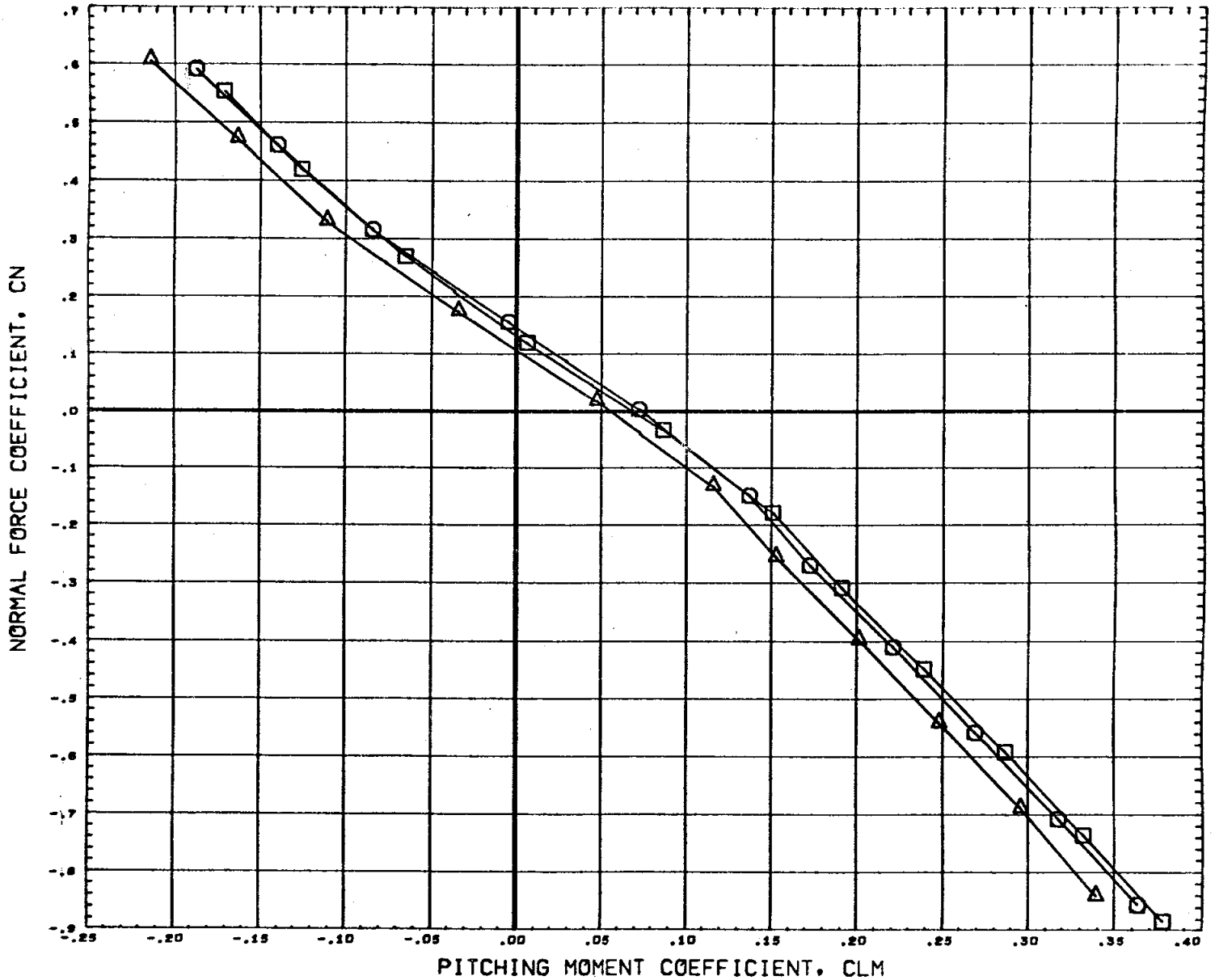


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER

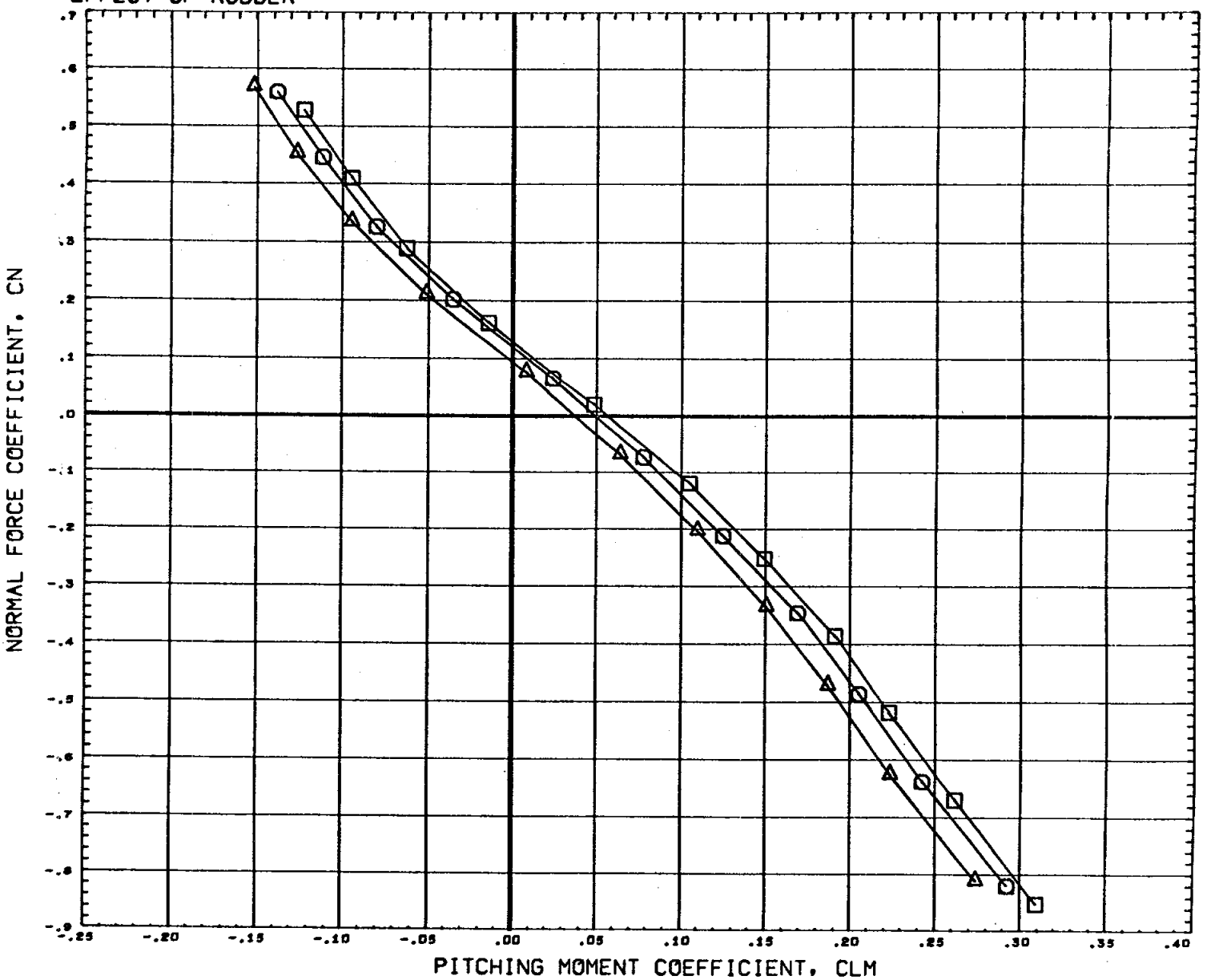


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

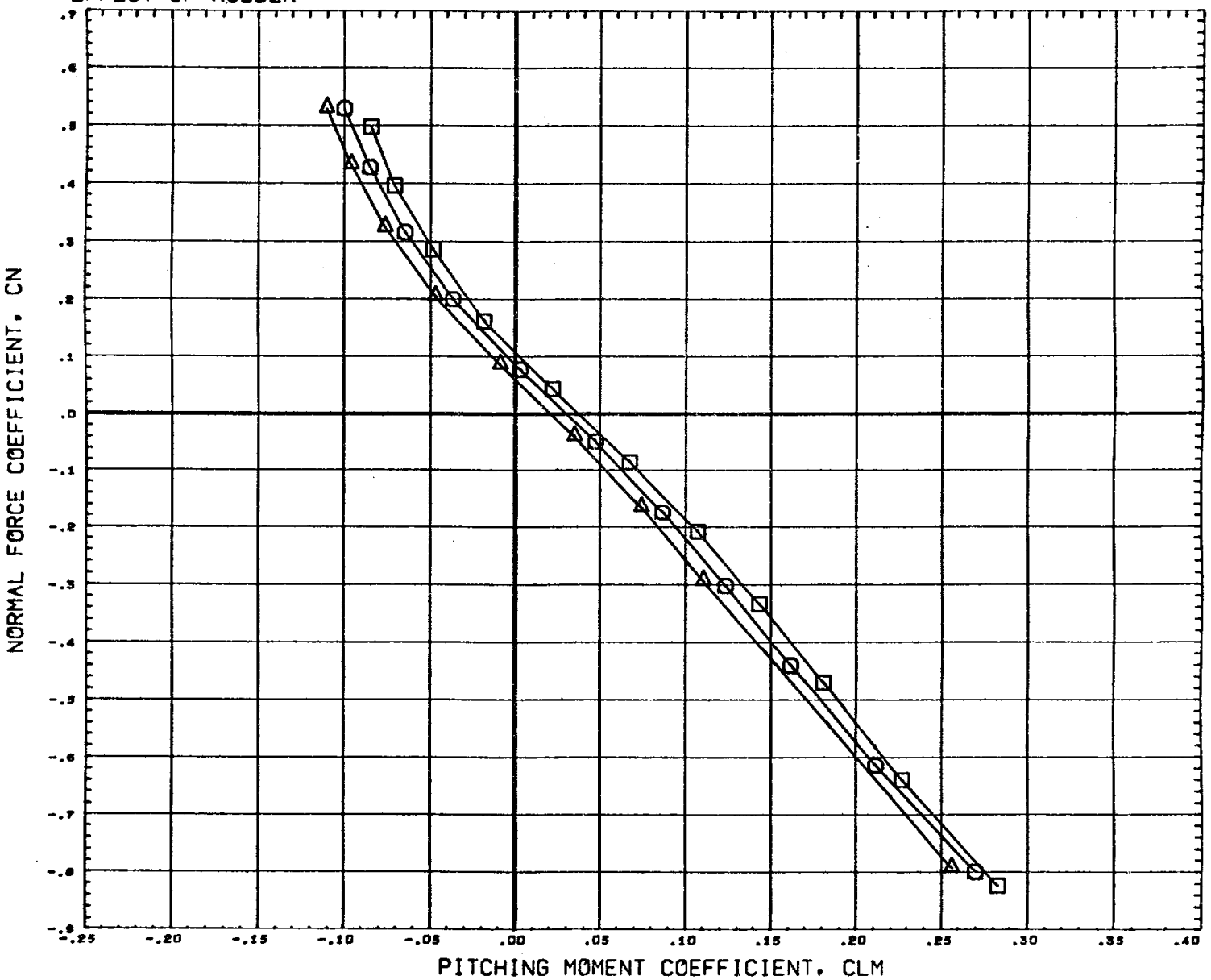


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER

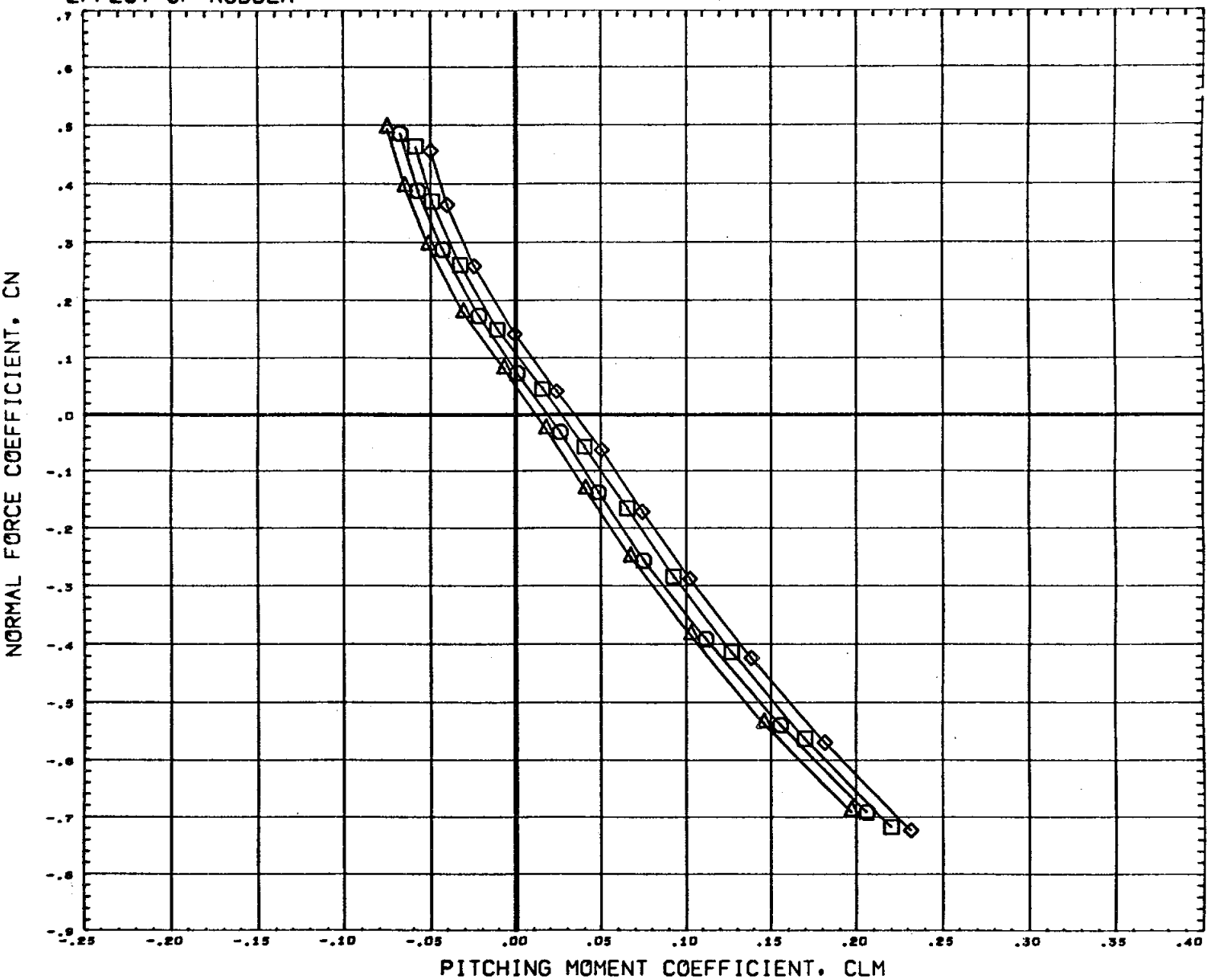


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER

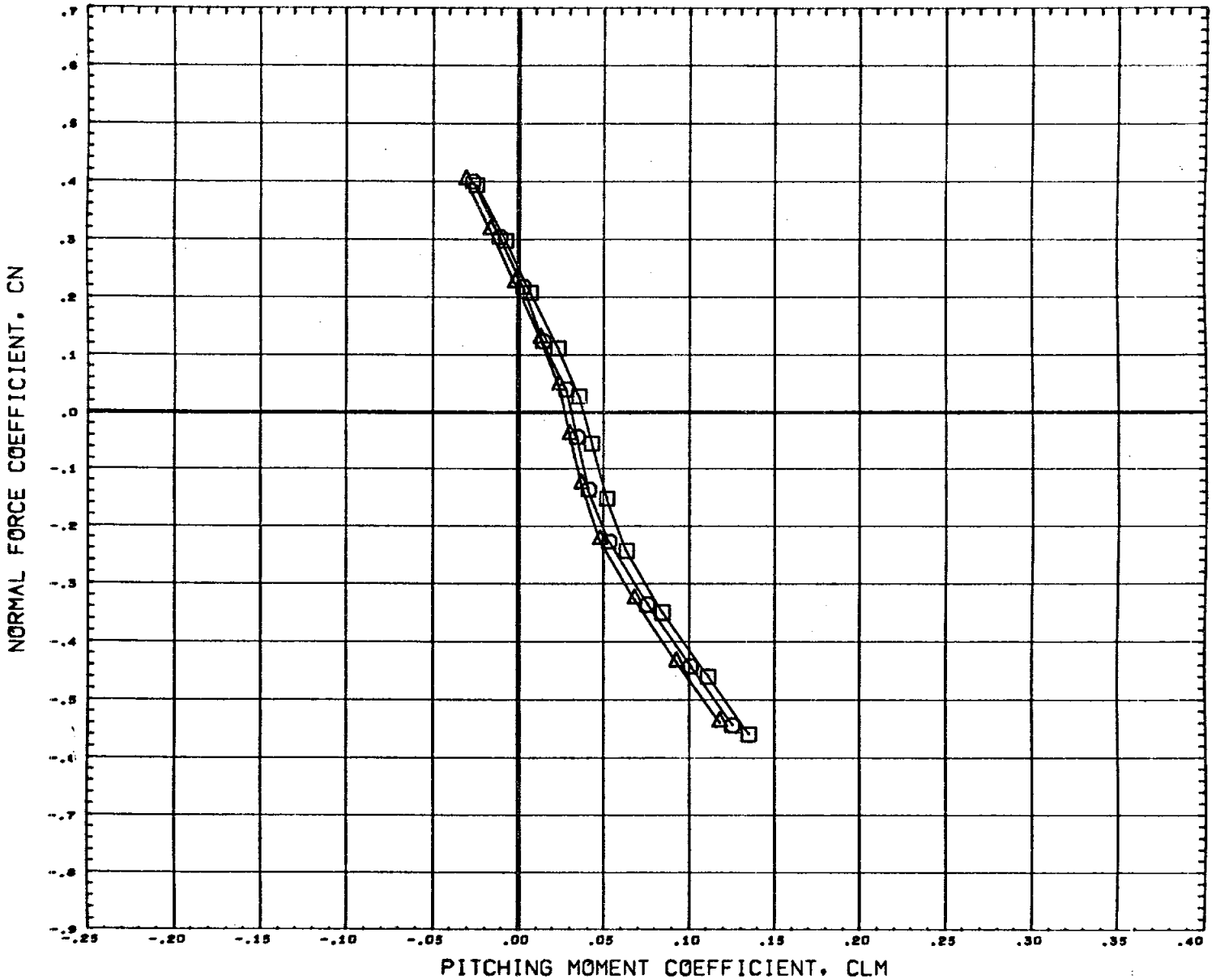


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000
(C77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

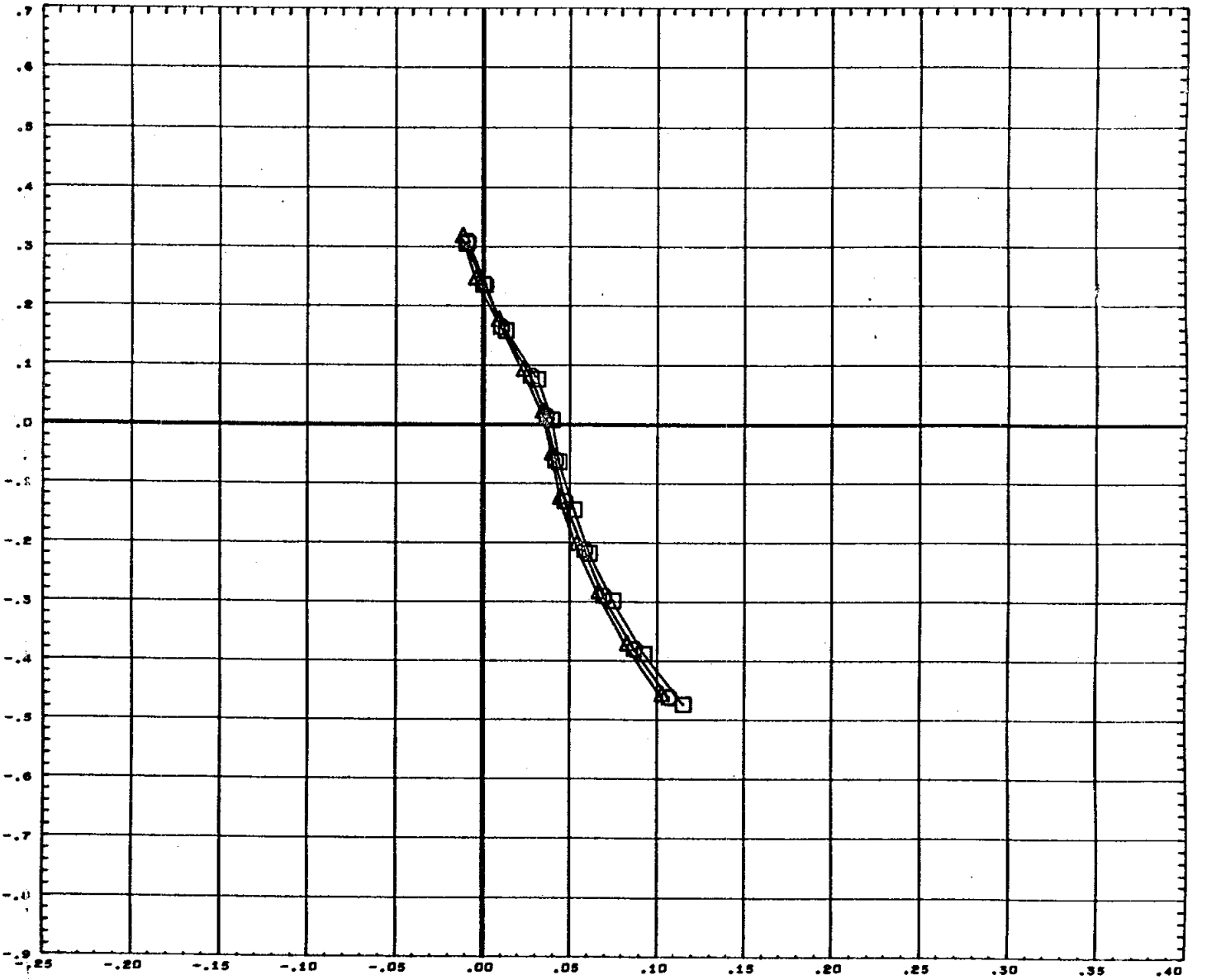


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(C77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER



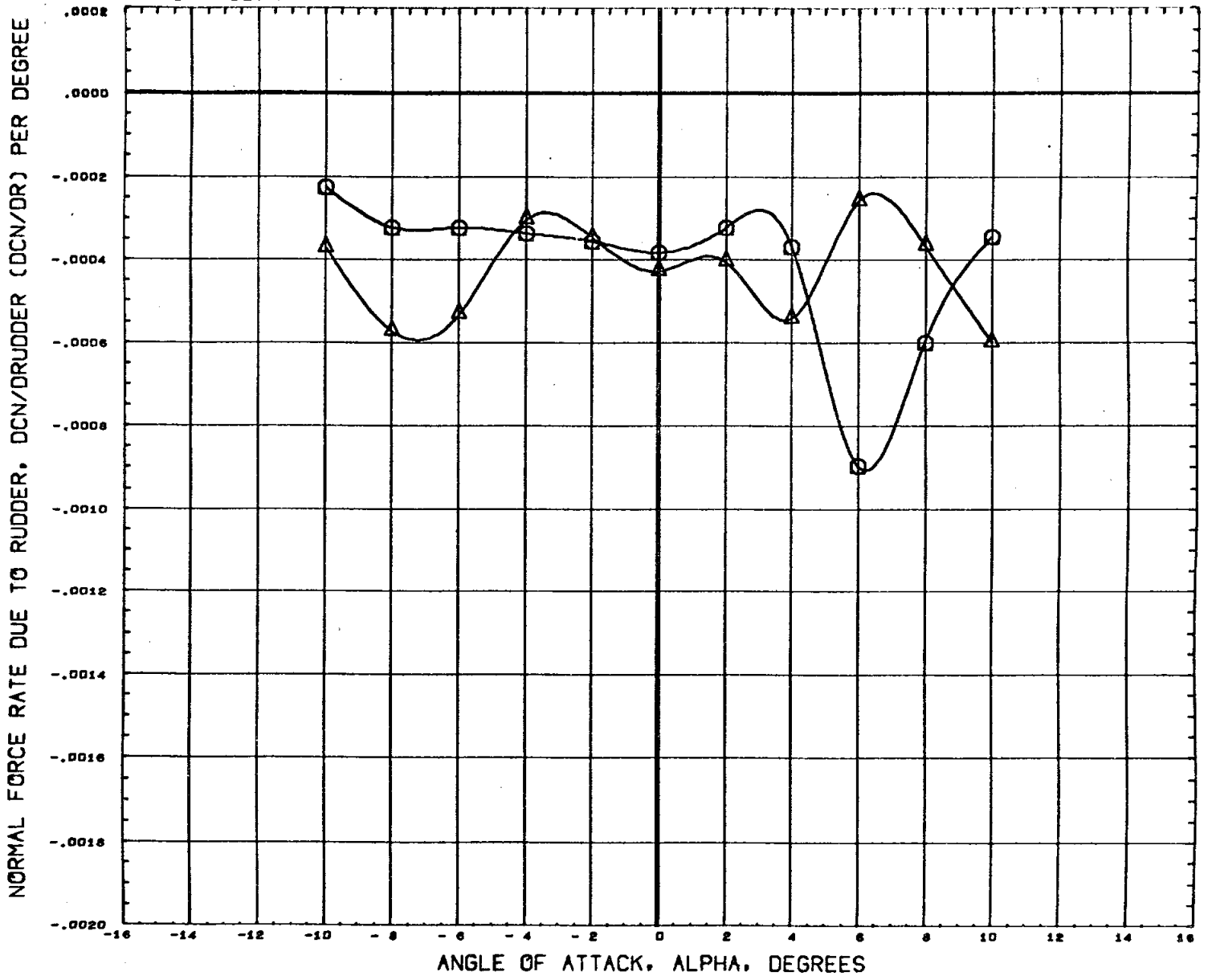
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(C77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER

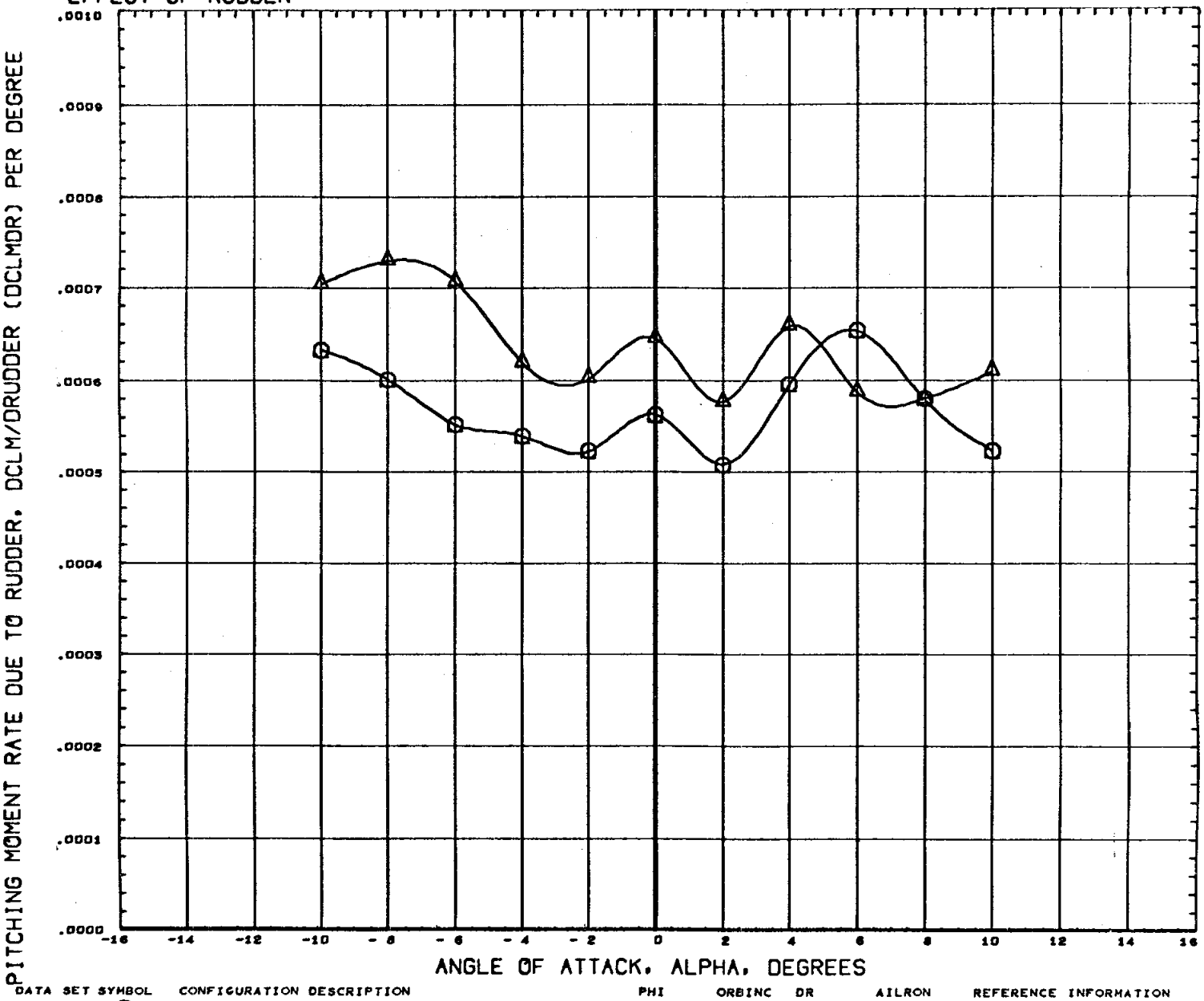


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C28)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(F77C36)		M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

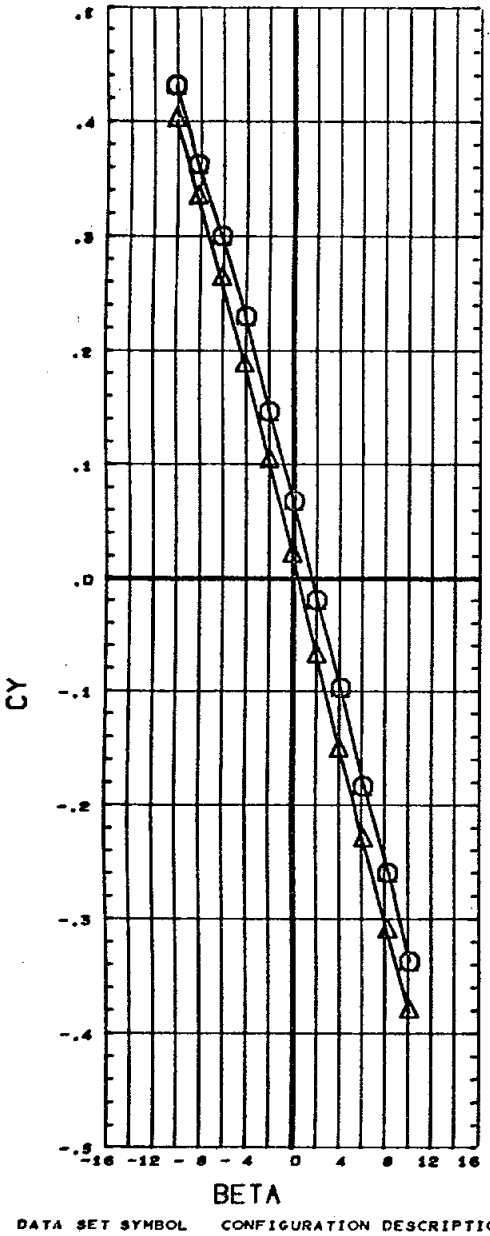


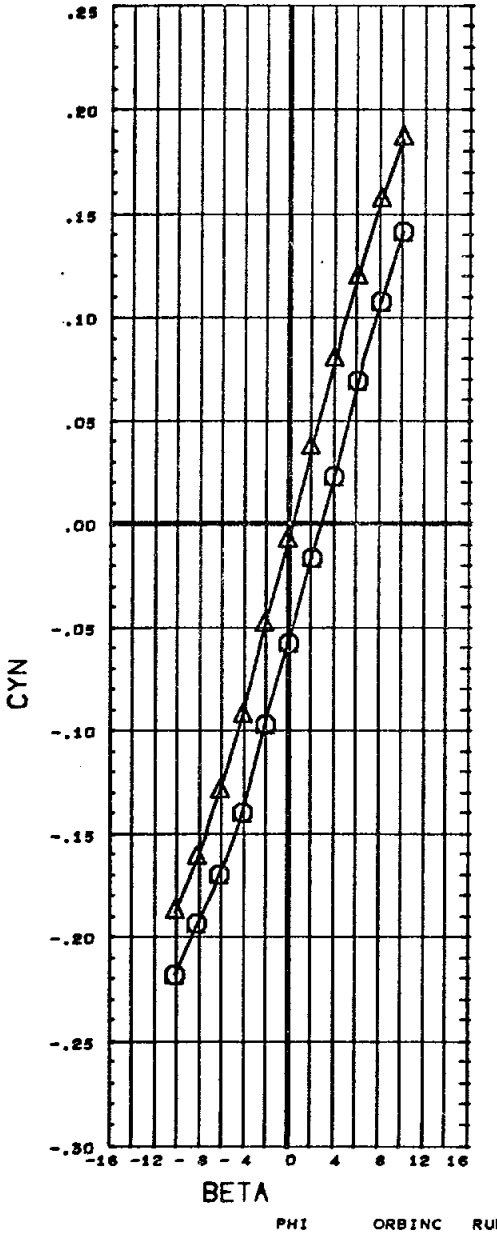
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C28)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(F77C36)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000

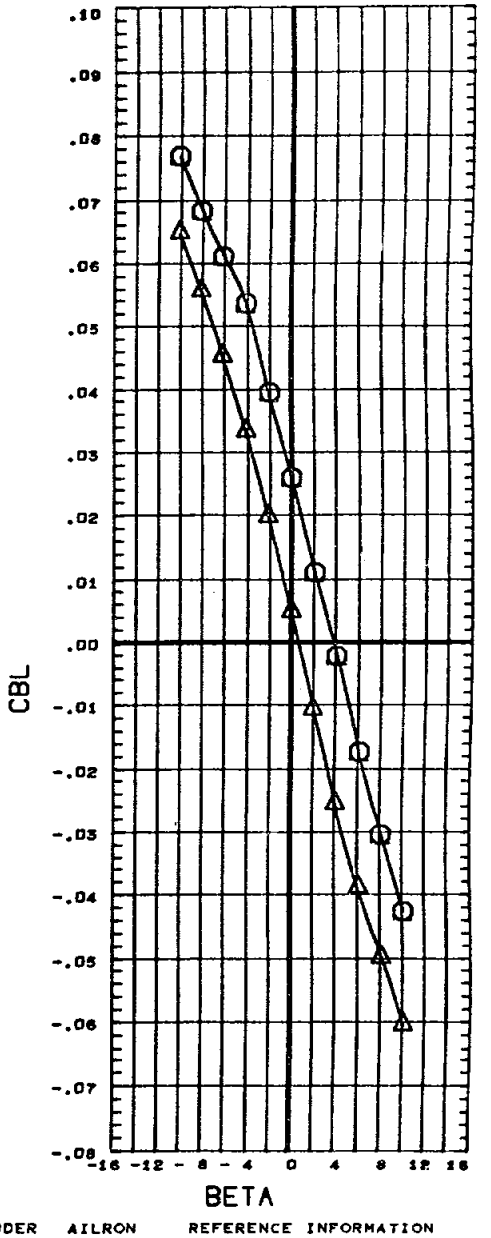
REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER





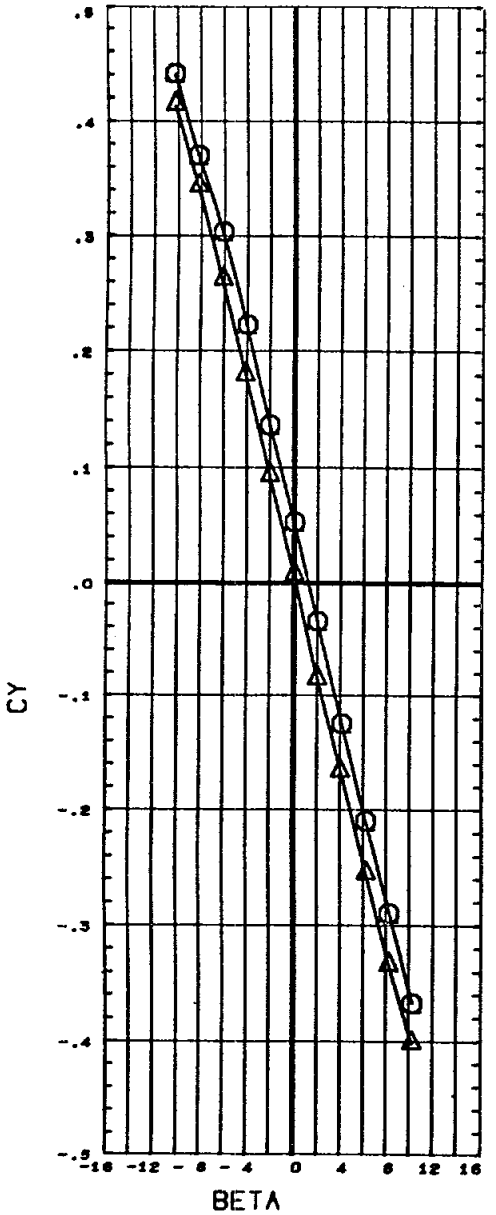


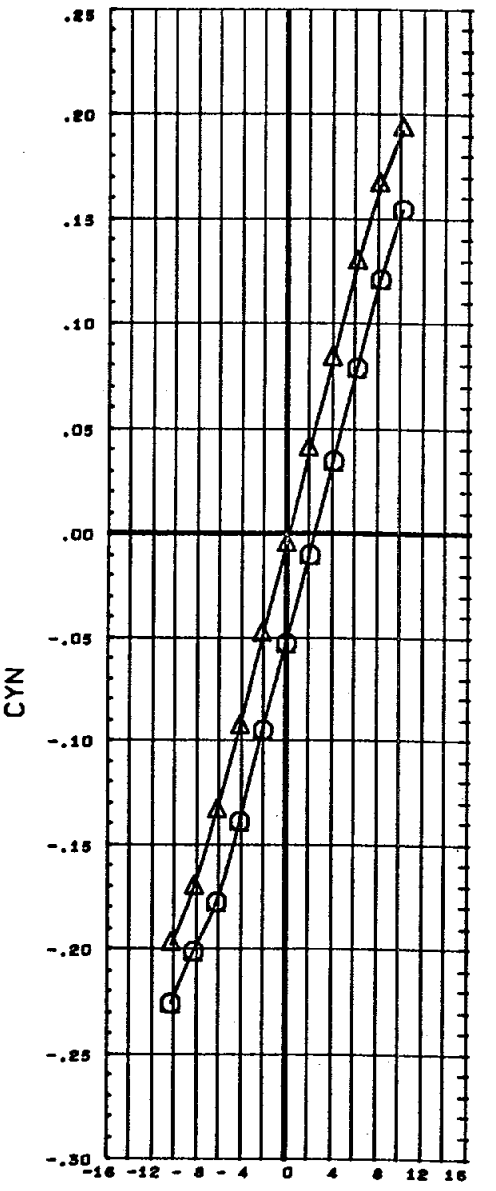
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000

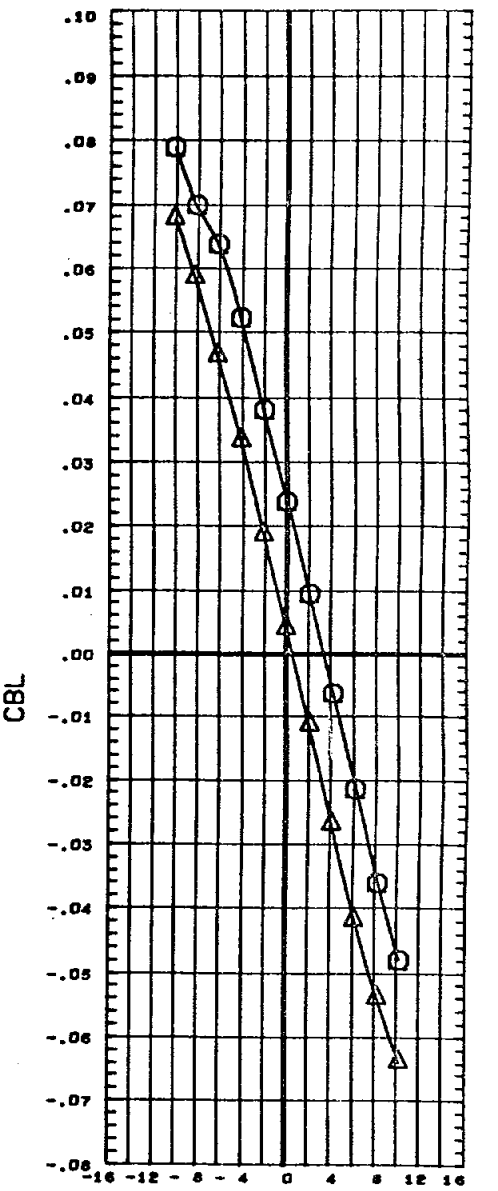
REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER







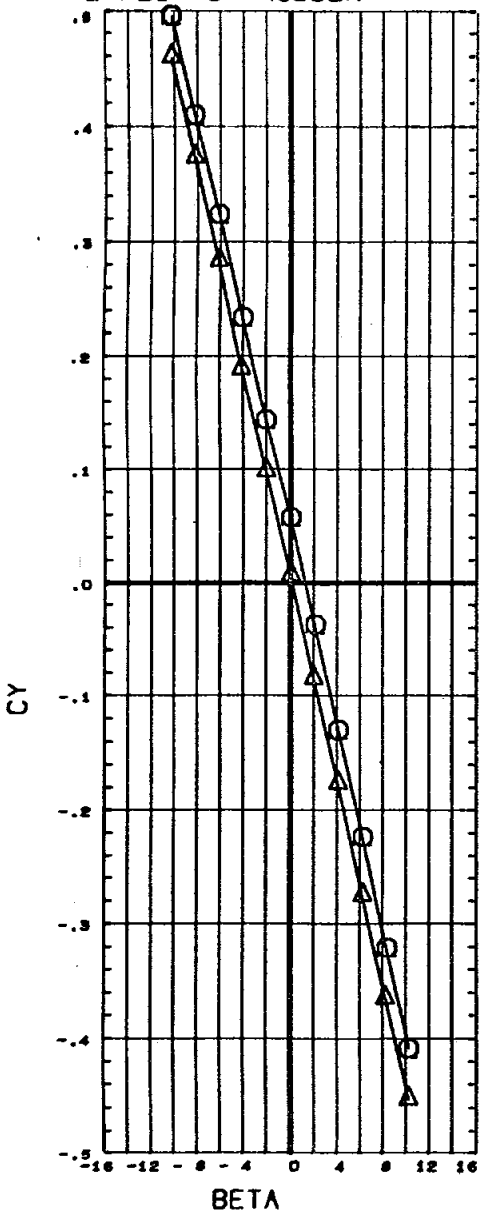
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

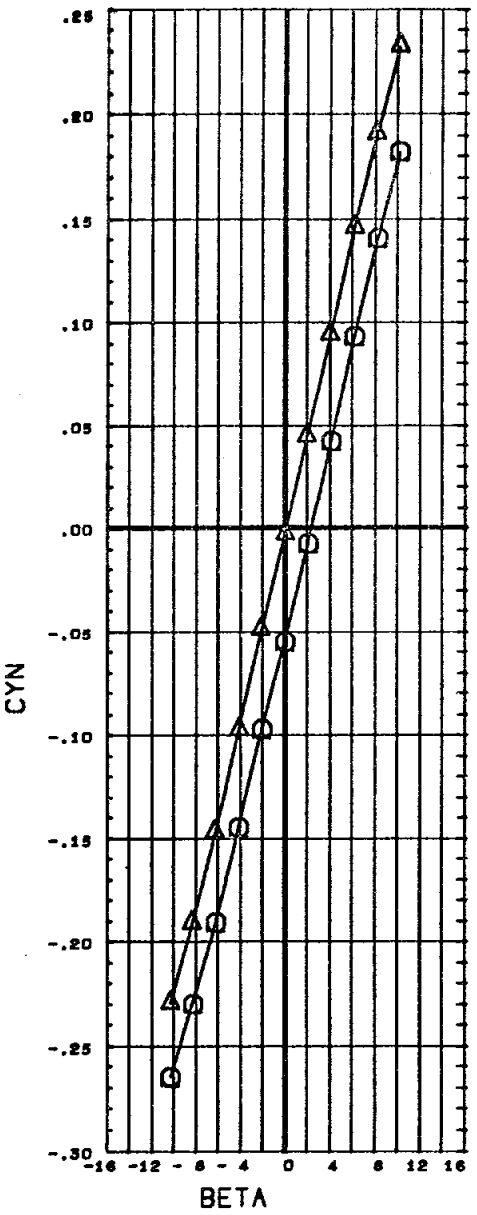
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000

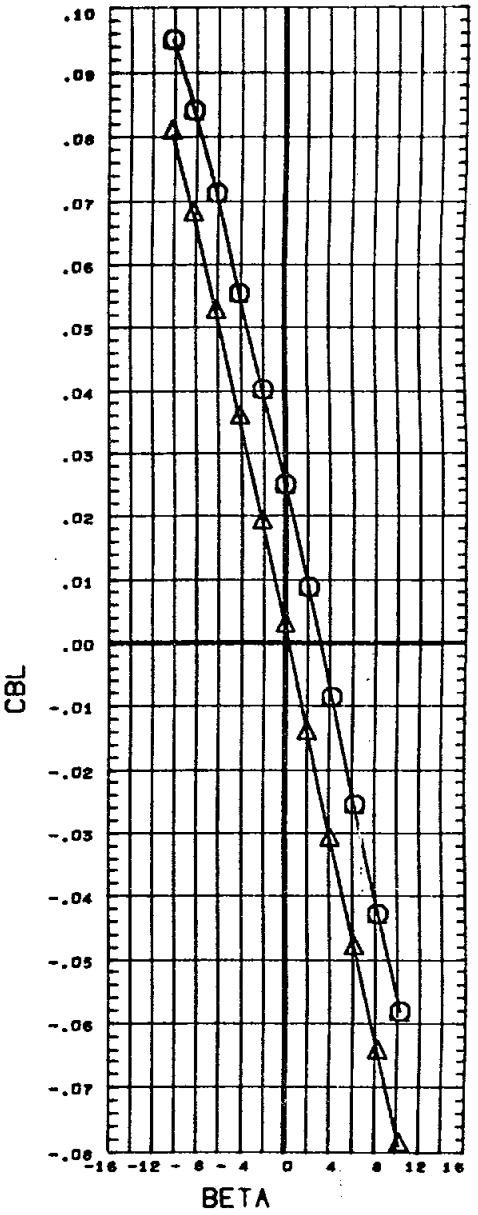
REFERENCE INFORMATION		
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LREF	5.3120	IN.
BREF	5.3120	IN.
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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER





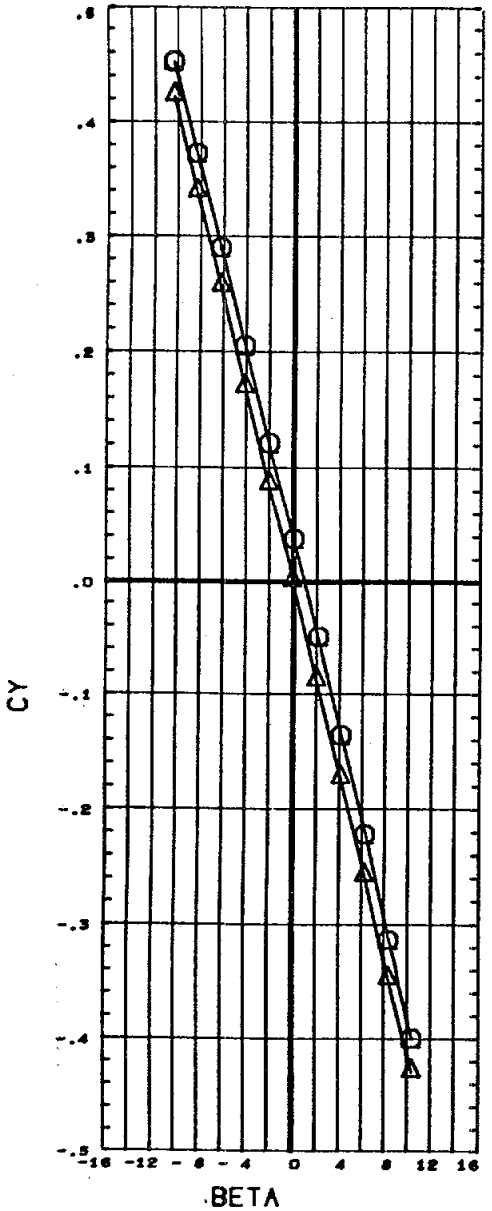


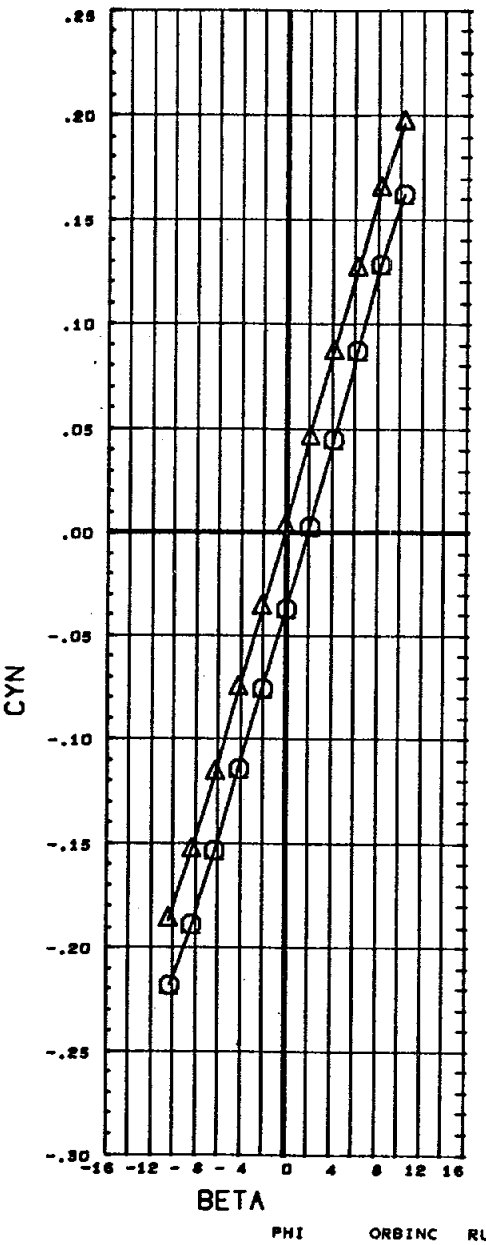
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000

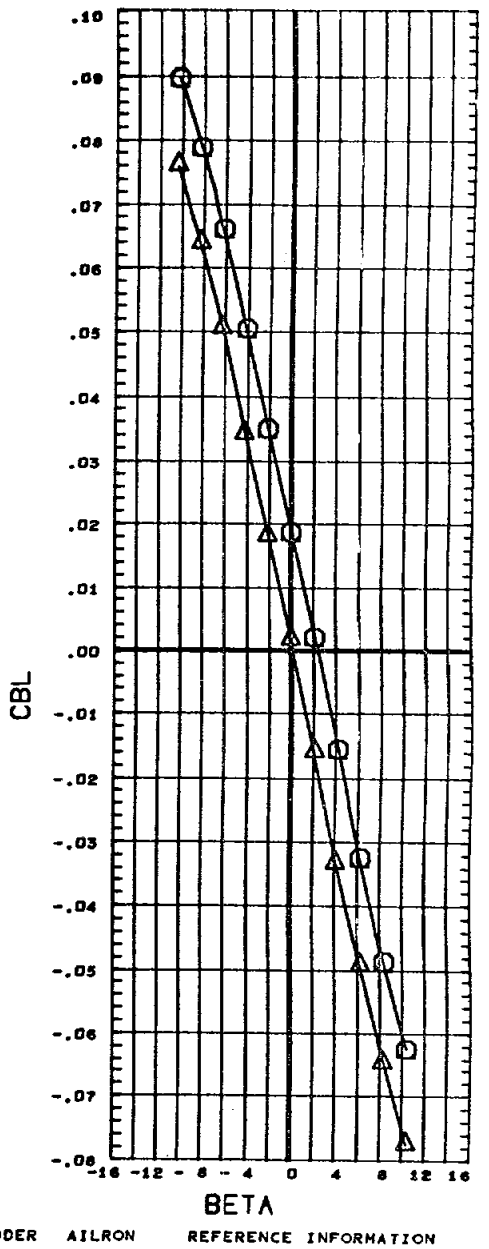
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER







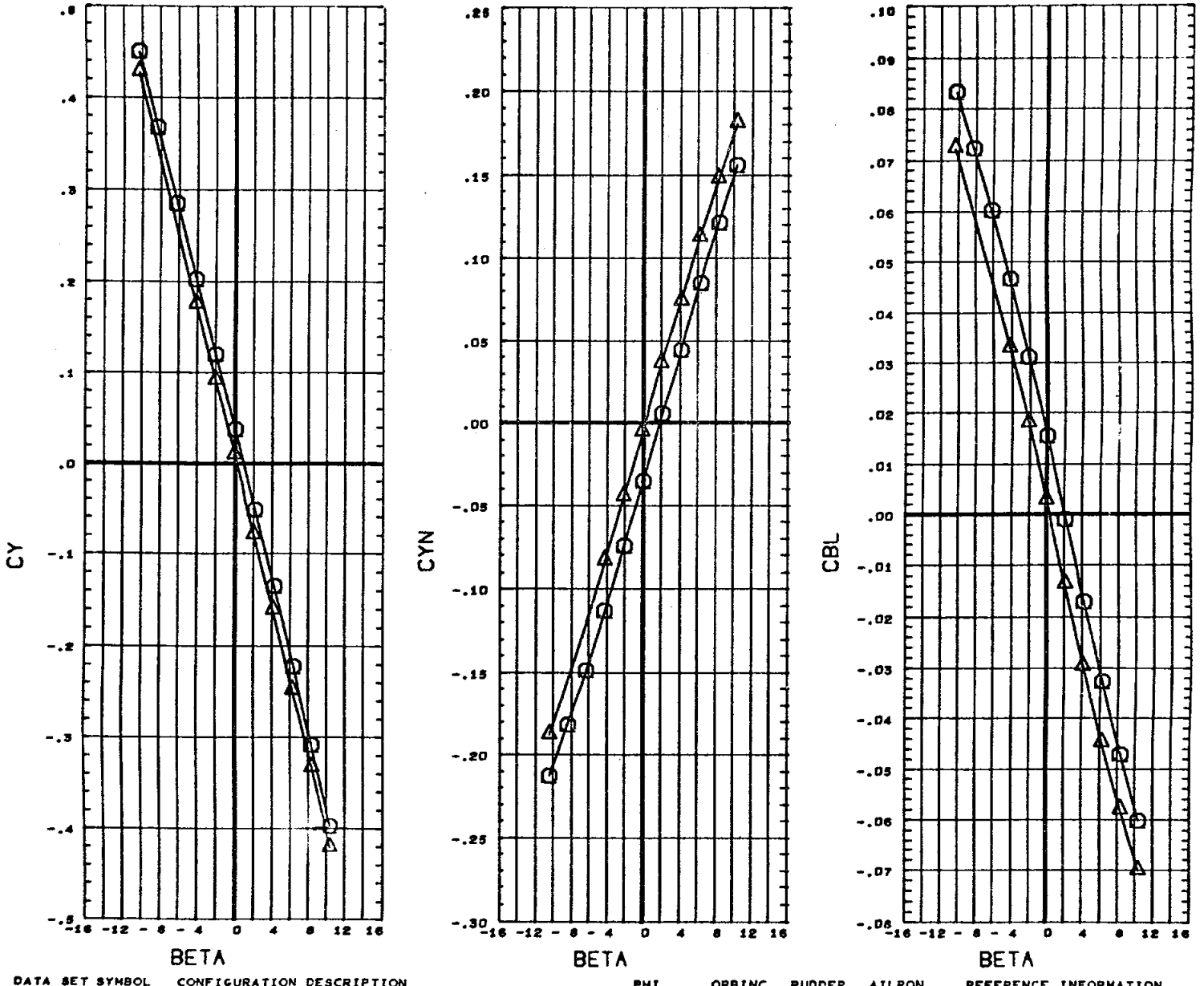
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER



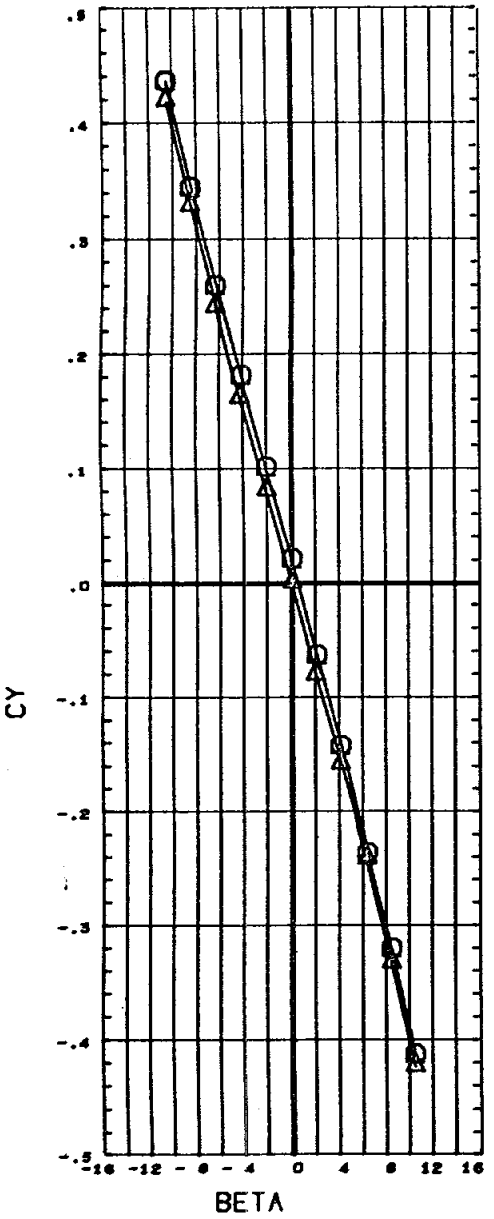
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

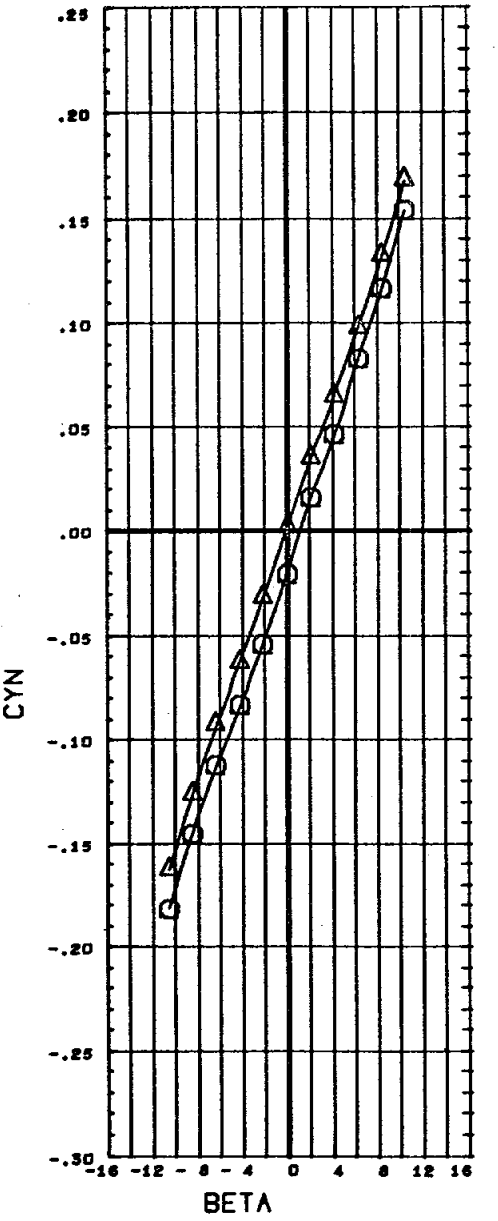
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000

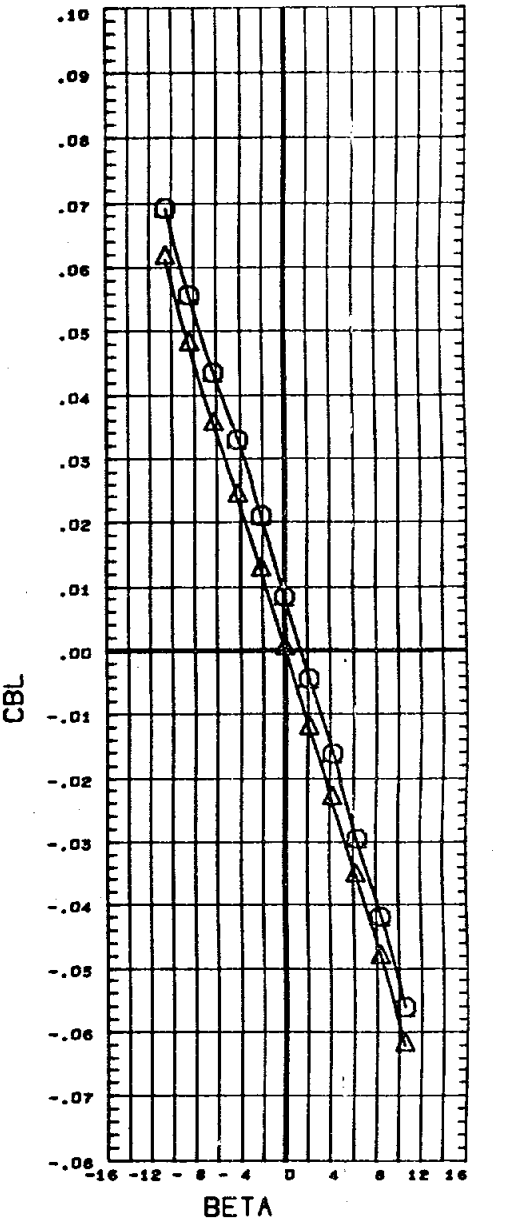
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SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER





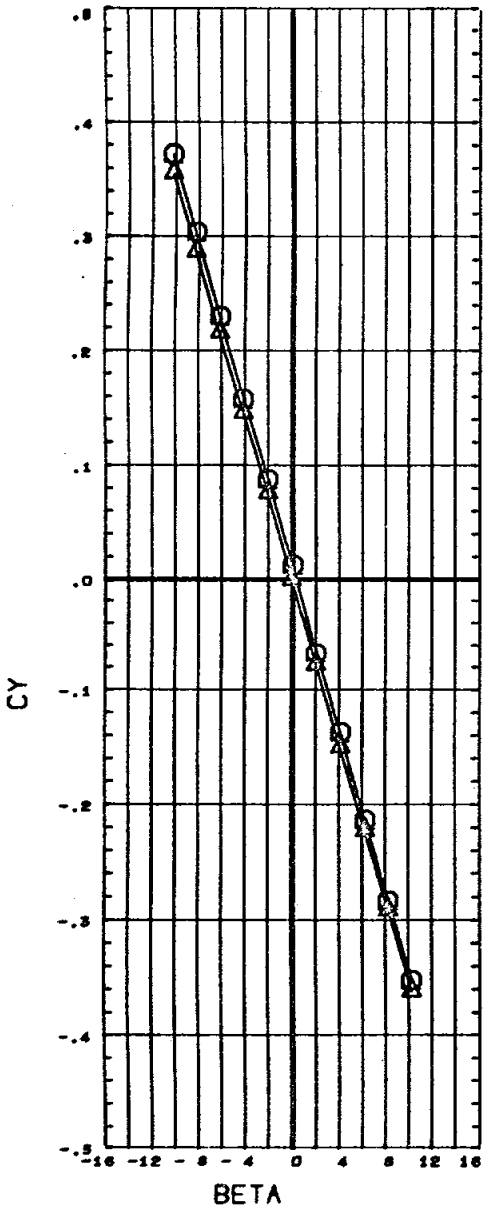


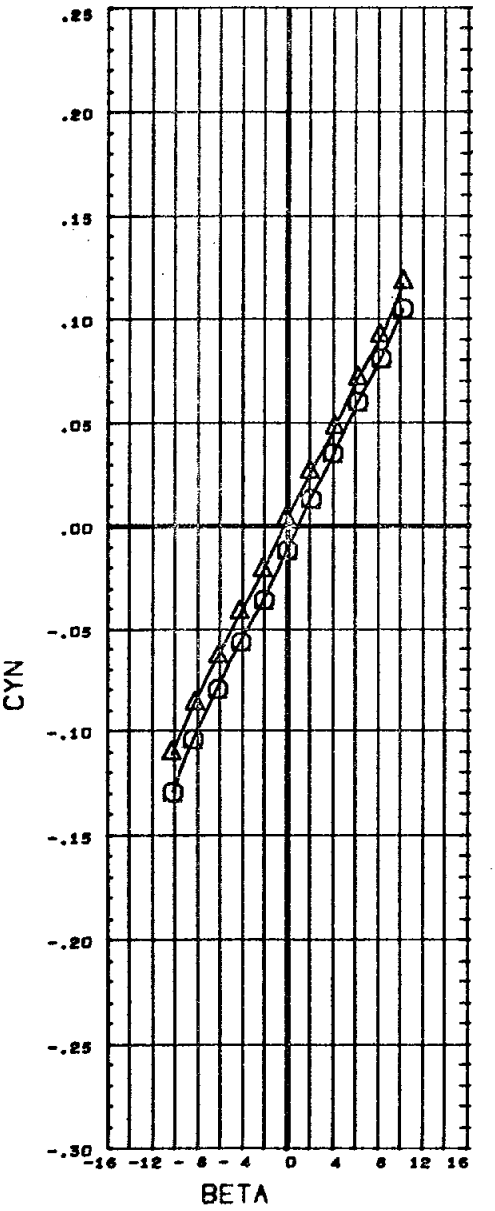
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000

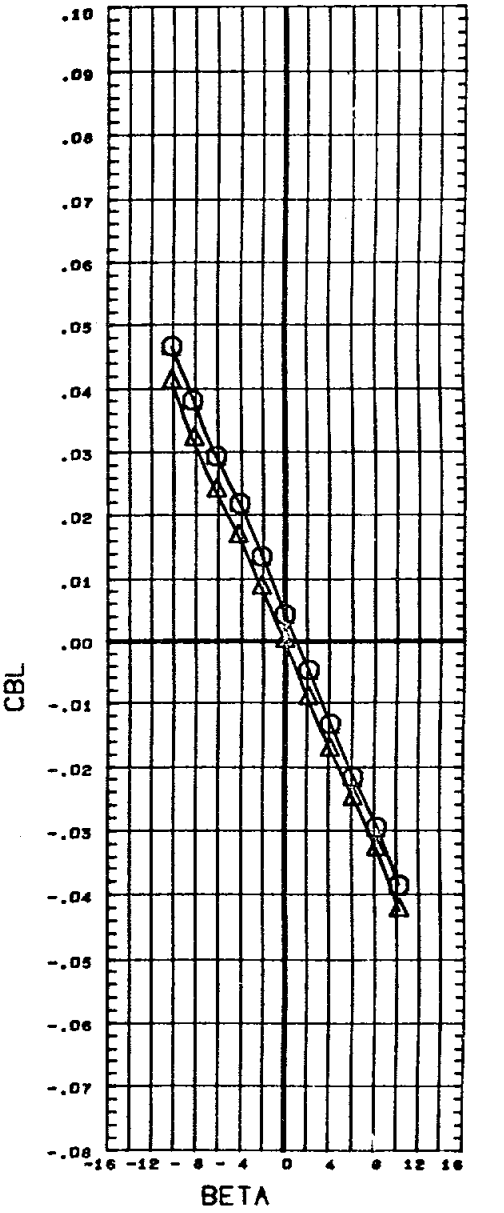
REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER





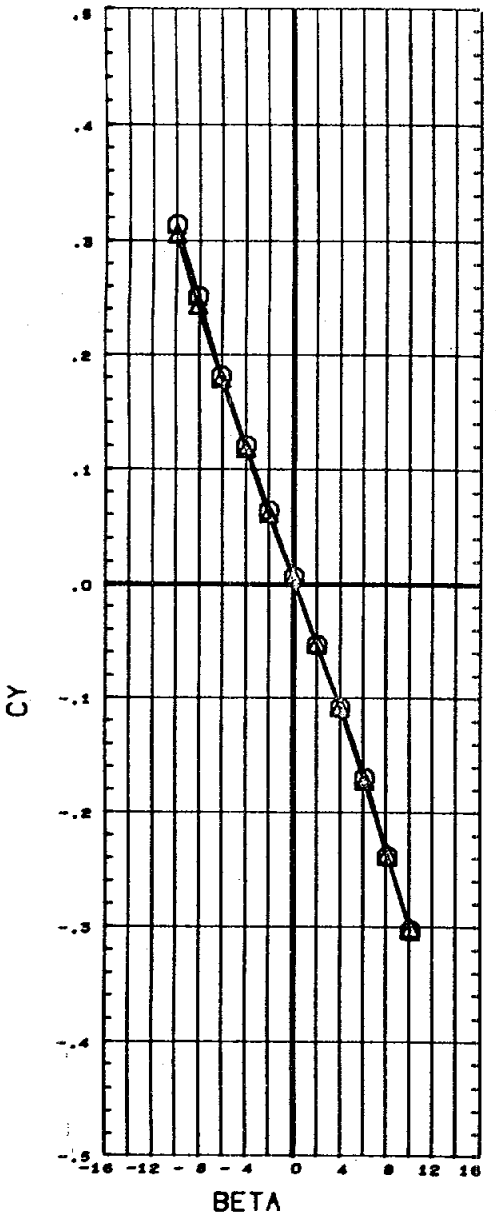


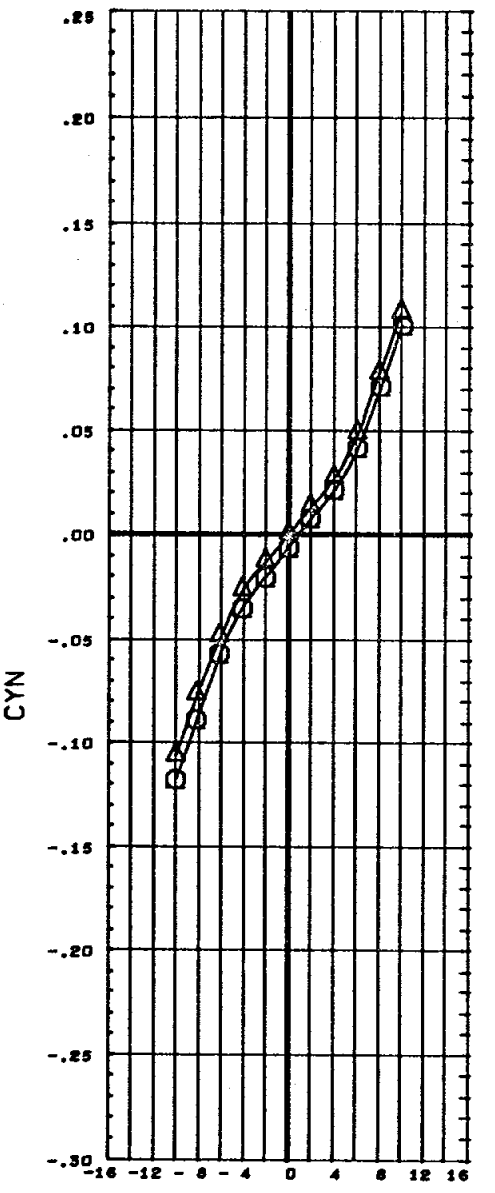
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000

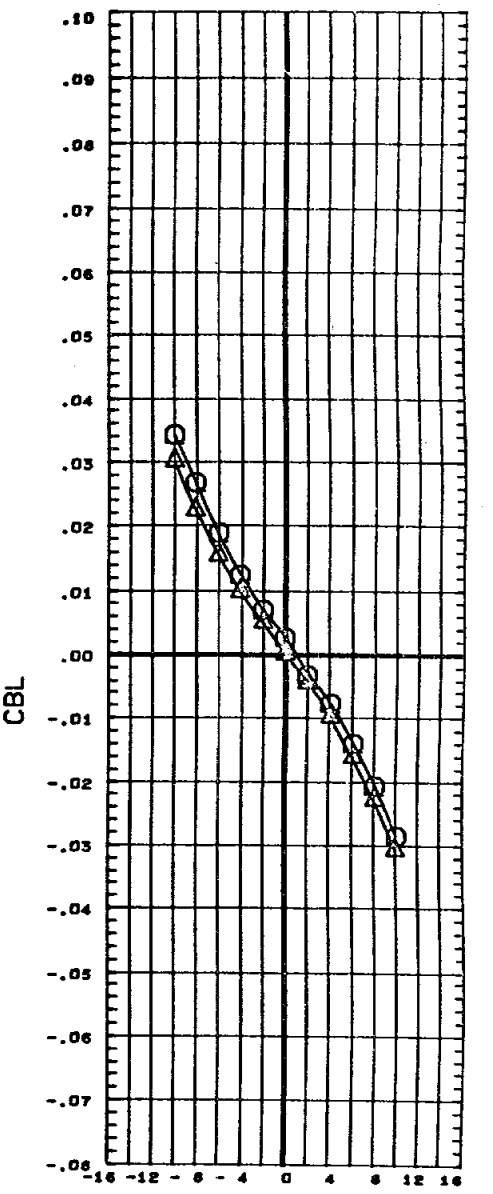
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER







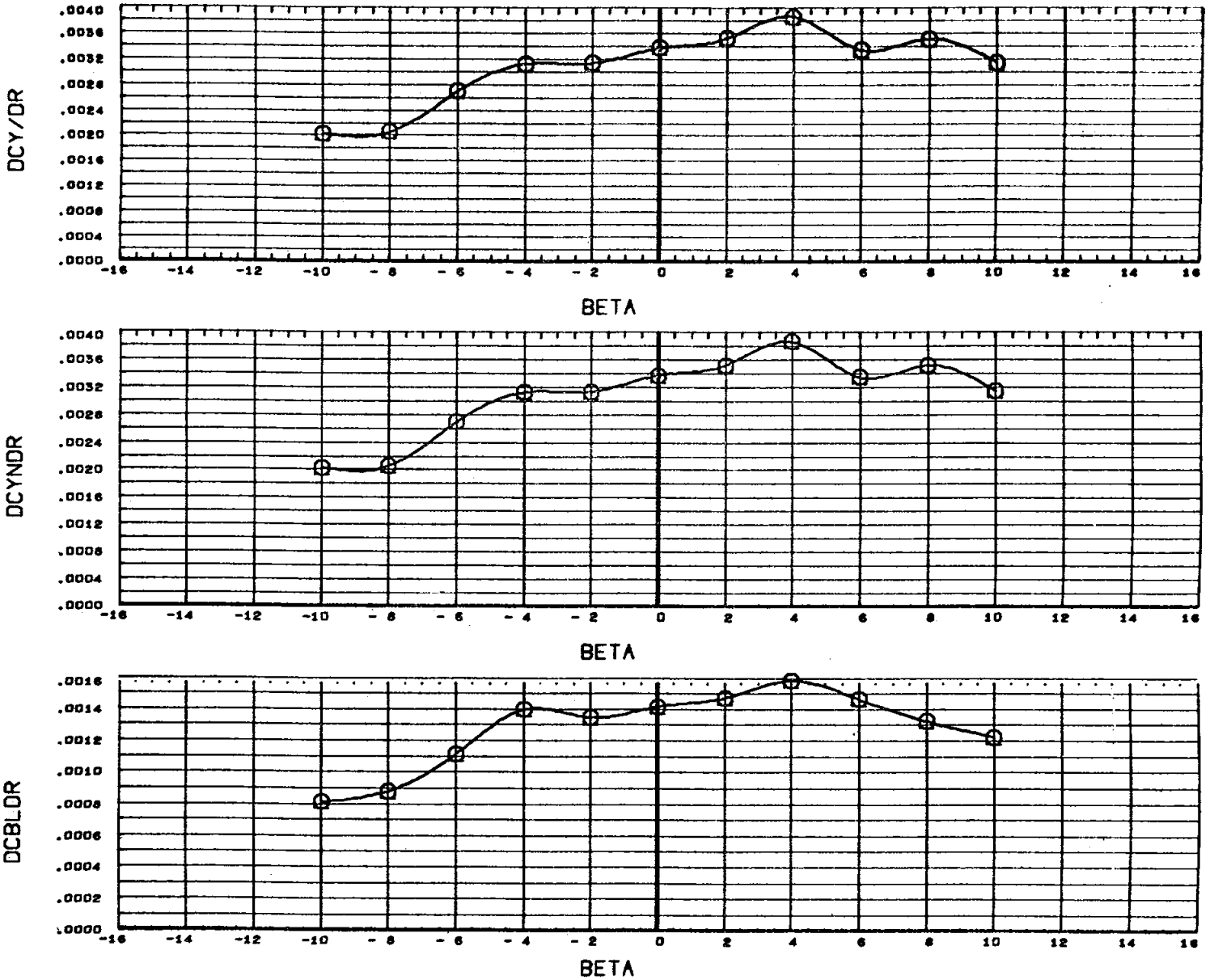
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77029)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77015)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER

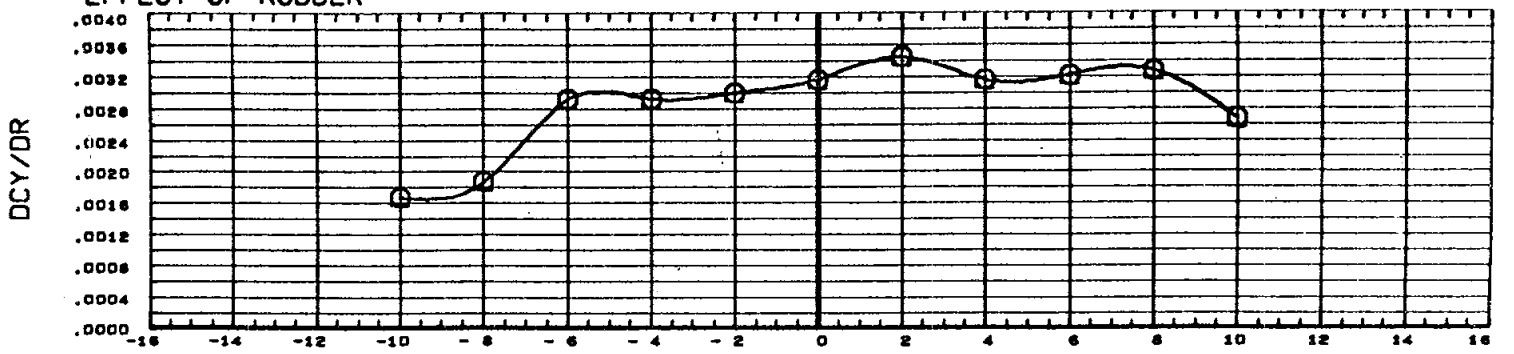


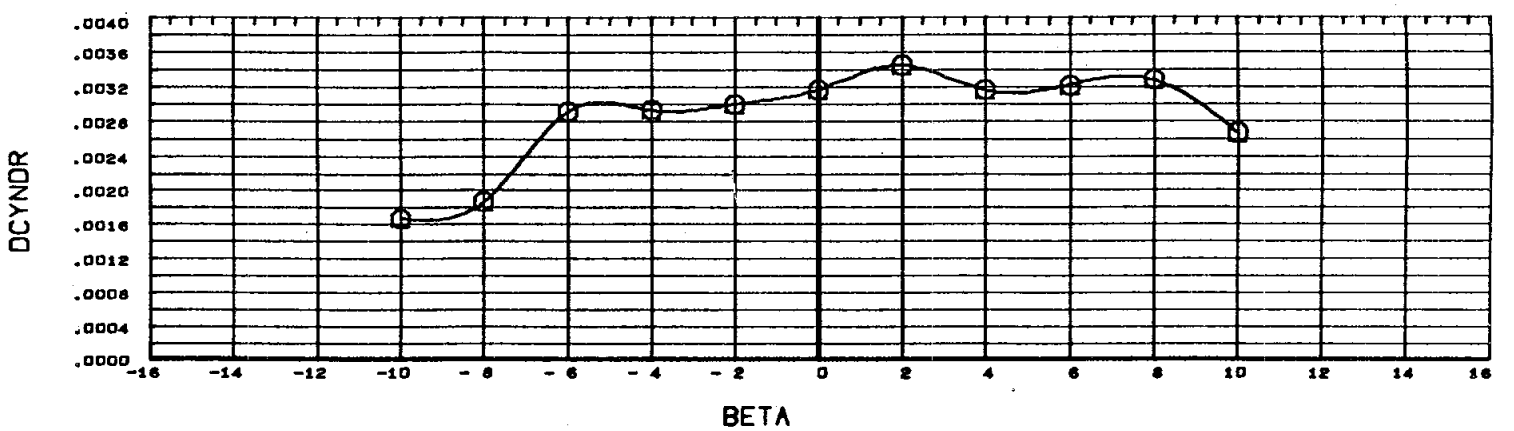
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) ○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

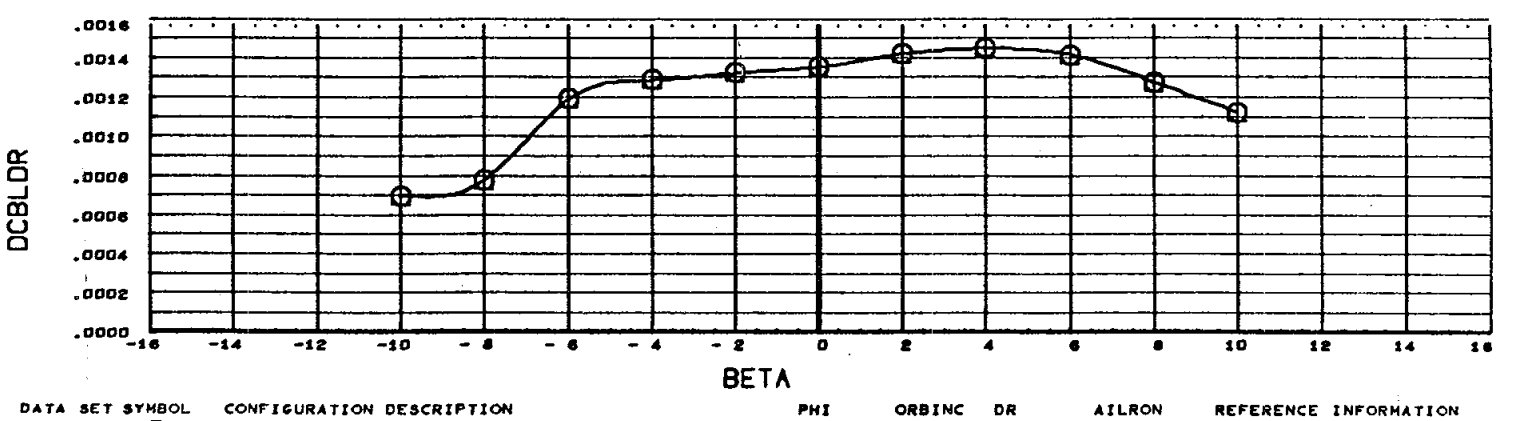
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LREF	5.3120	IN.
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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER





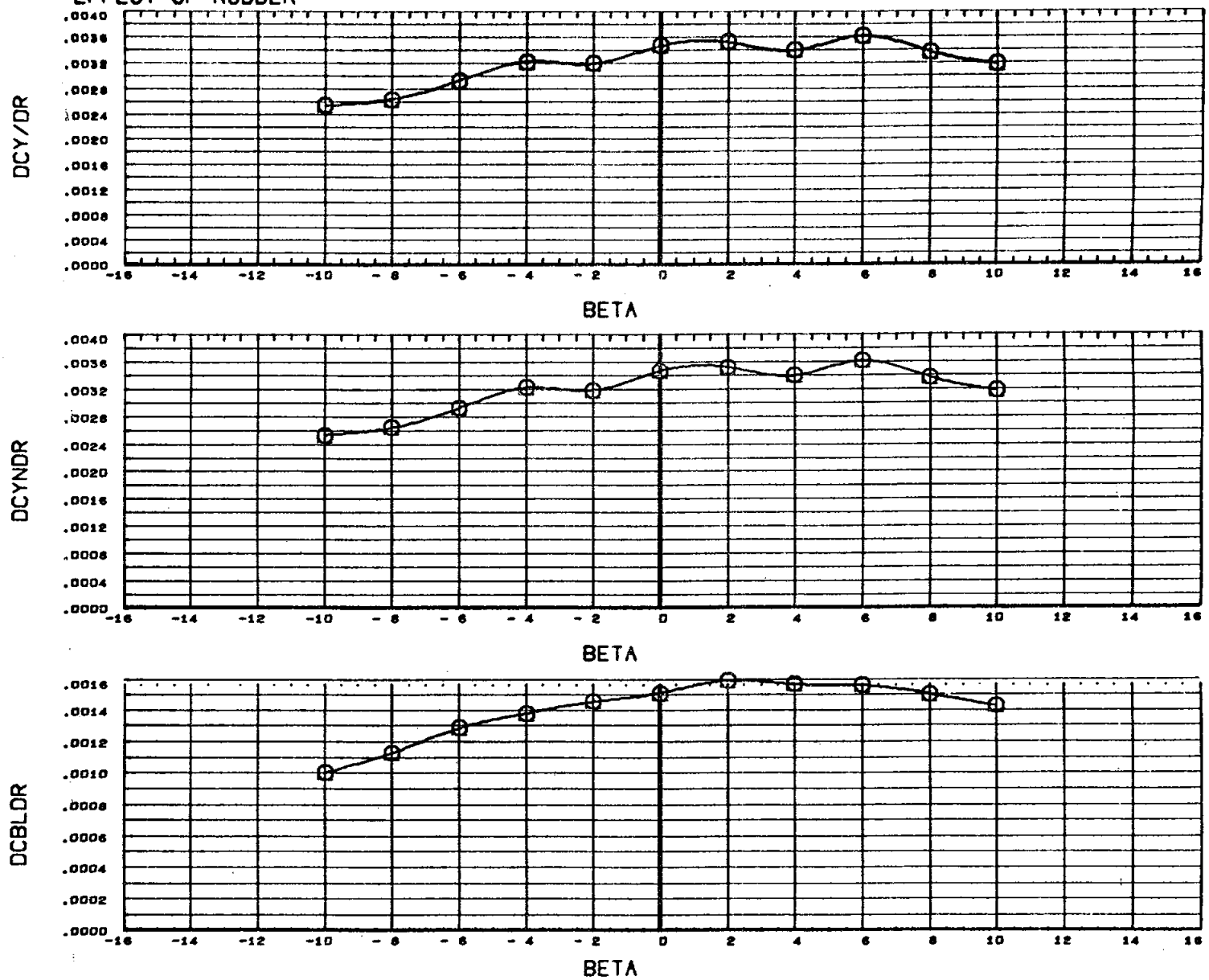


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) ○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER

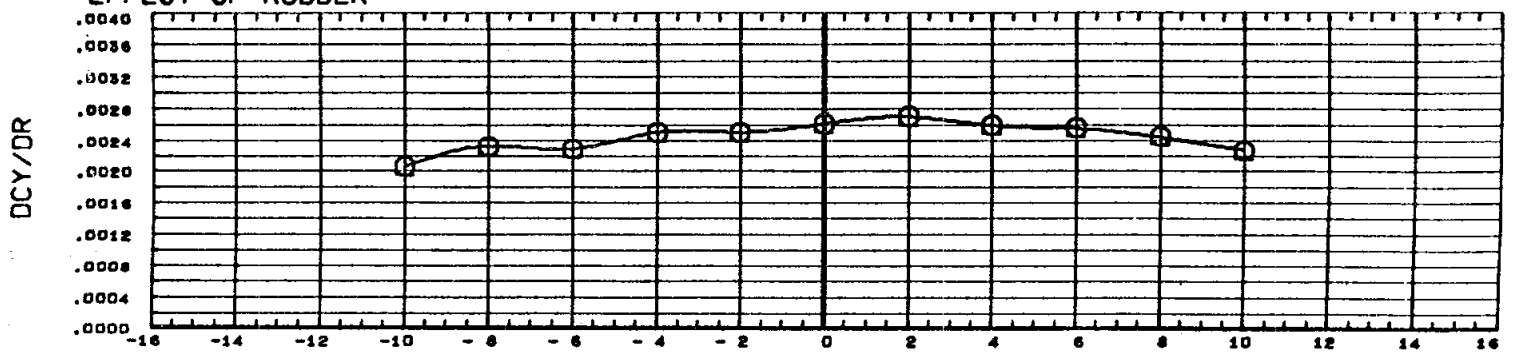


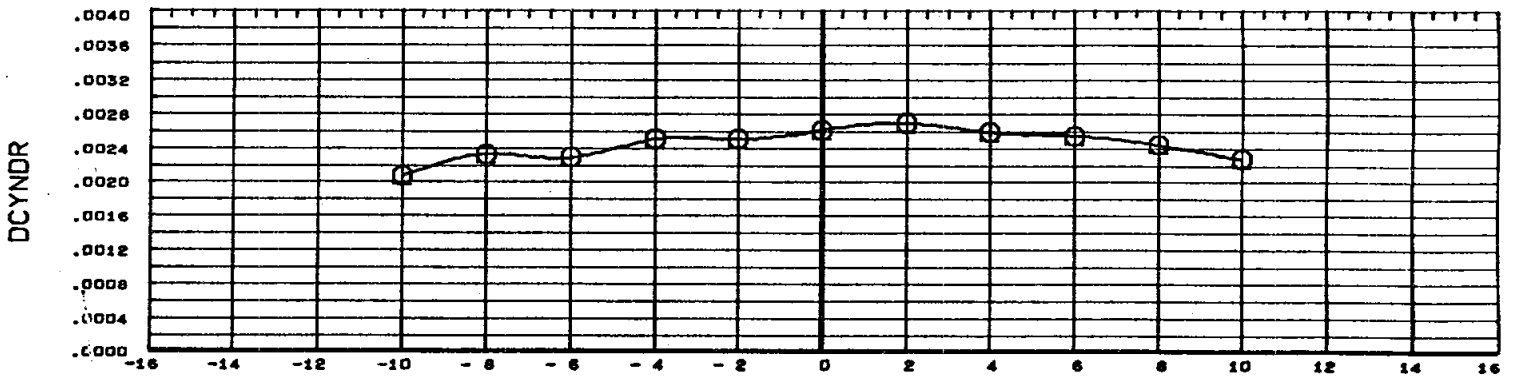
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) ○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000

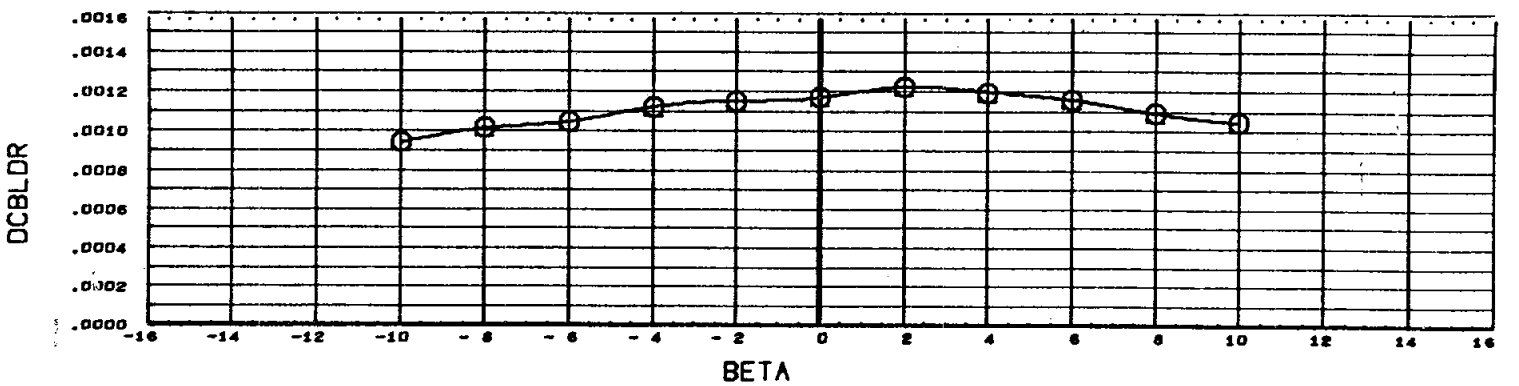
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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER







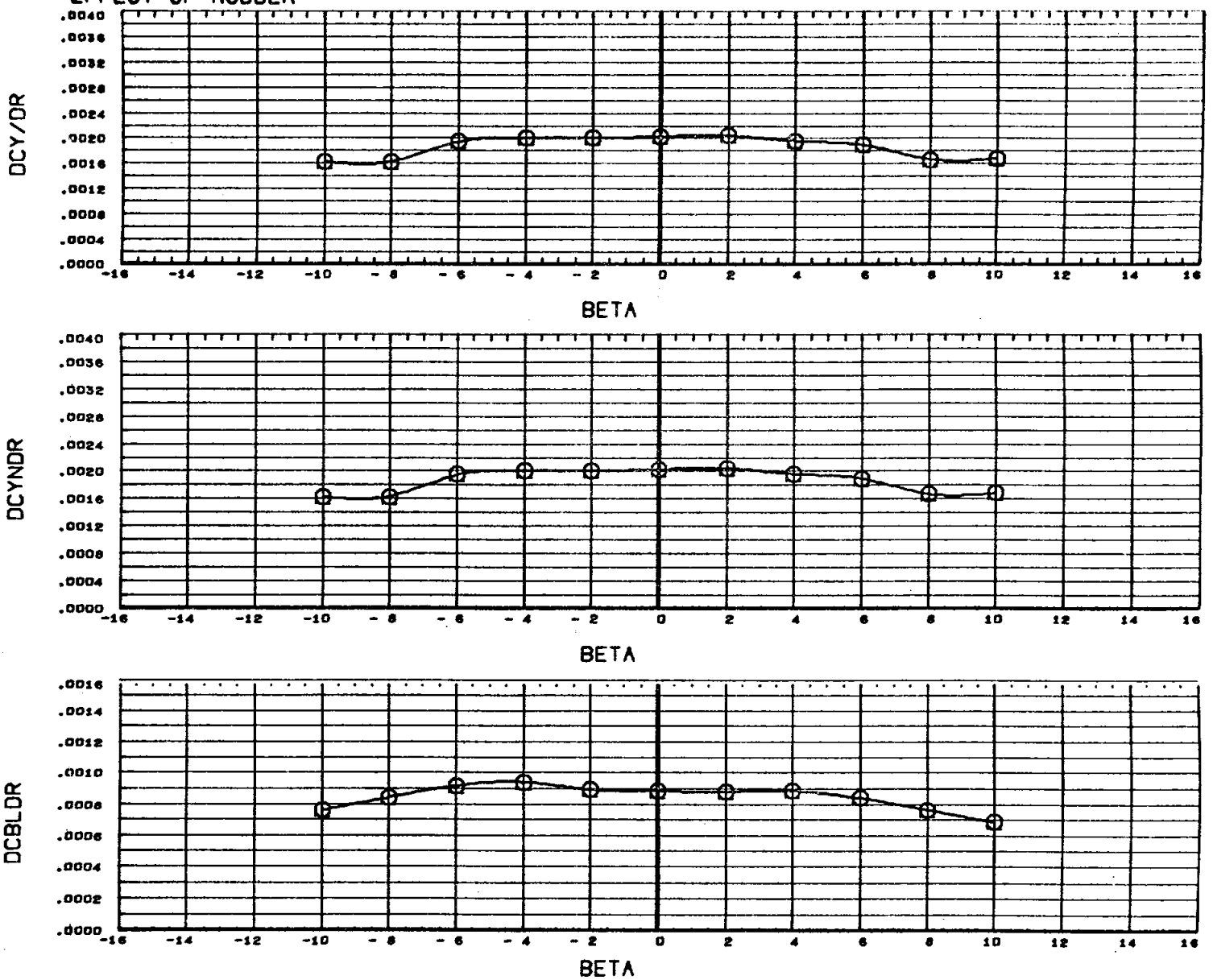
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) ○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
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ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER

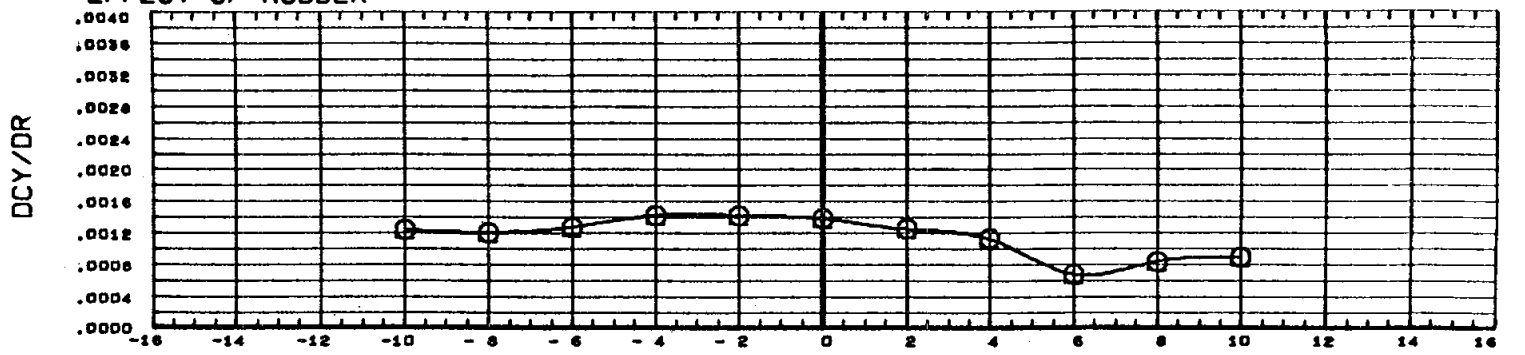


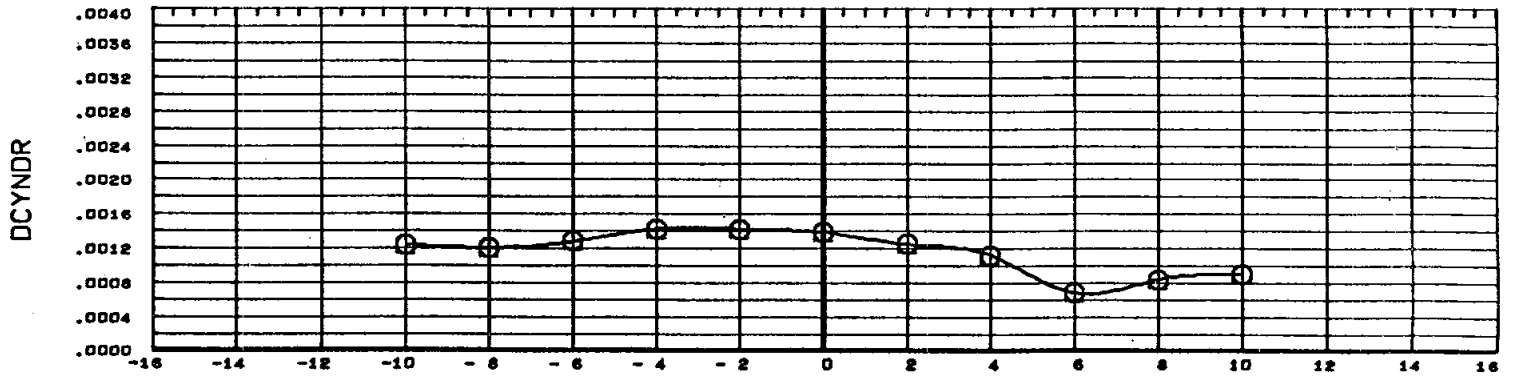
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) ○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

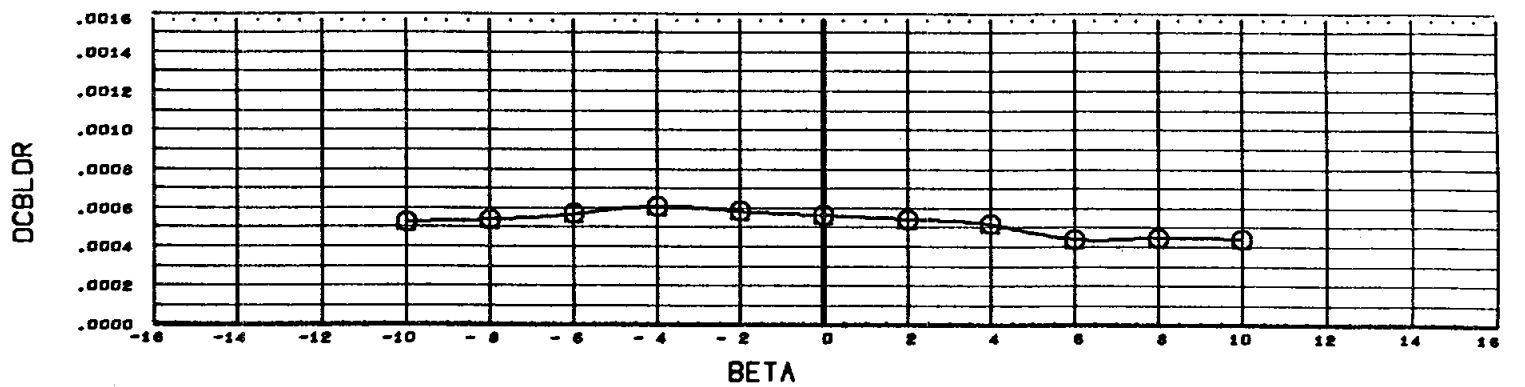
REFERENCE INFORMATION		
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XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER





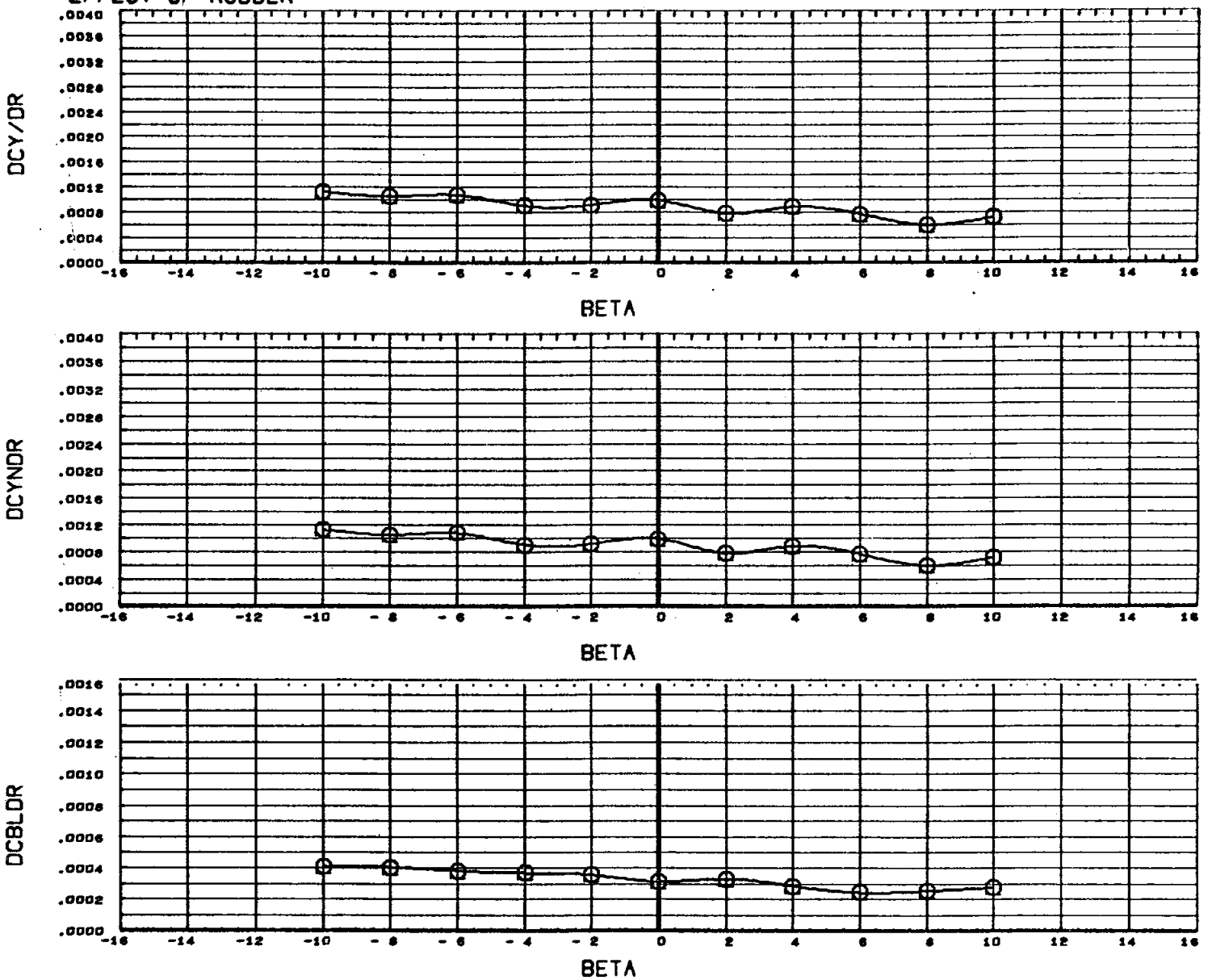


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) O	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
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BREF	5.3120	IN.
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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

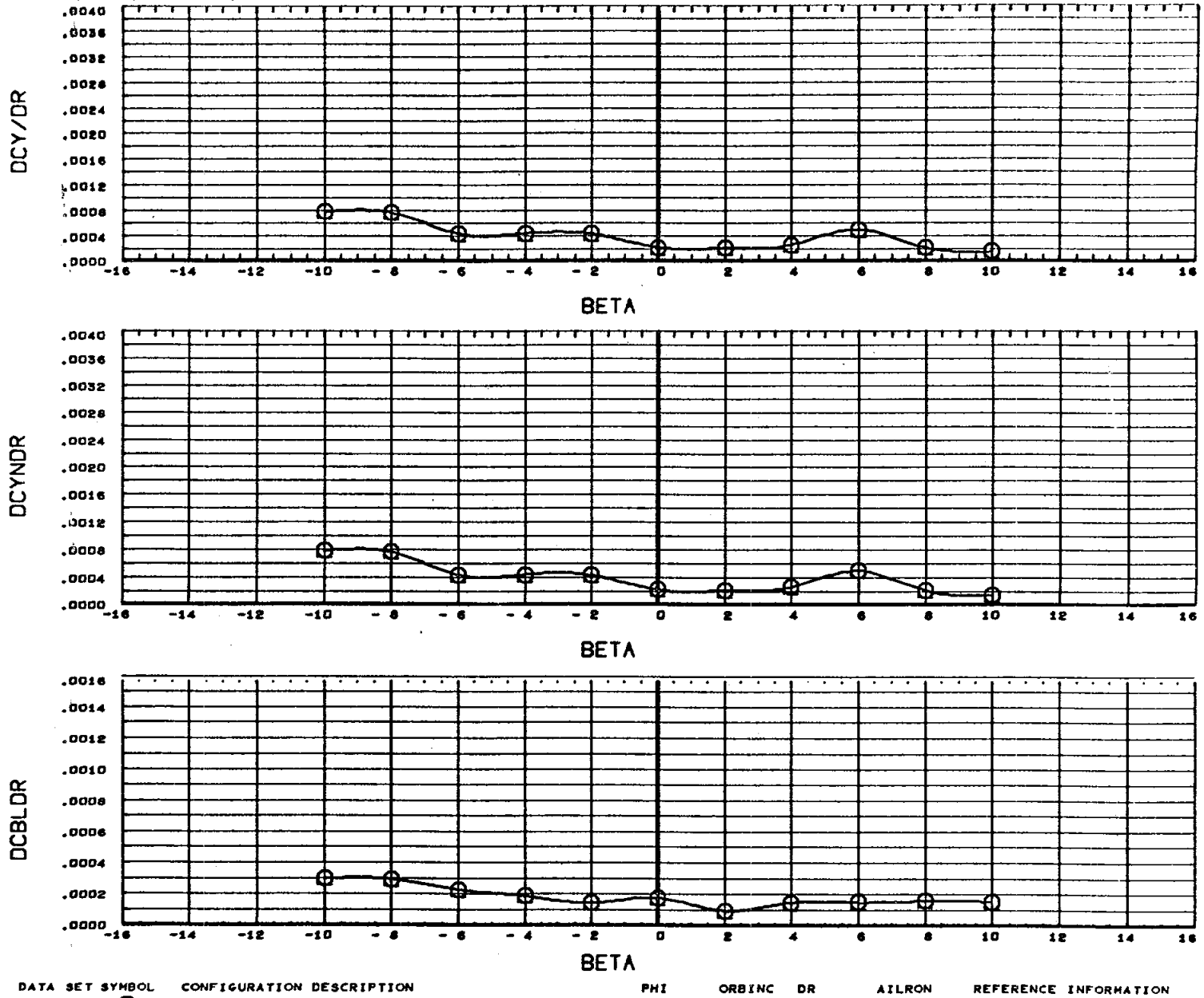


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29) O	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER

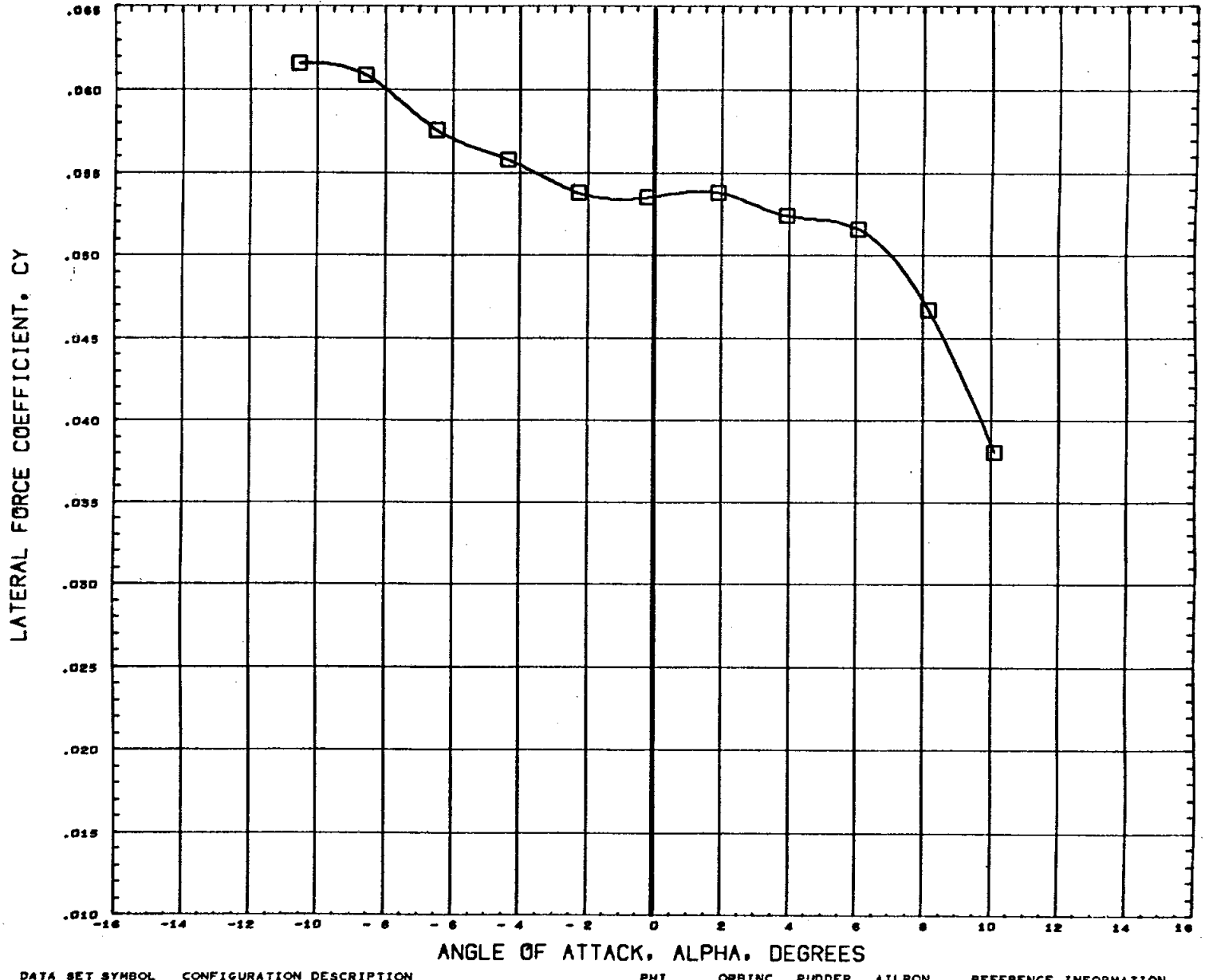


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	PHI	ORBINC	DR	AILRON
(F77C29)	O	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON

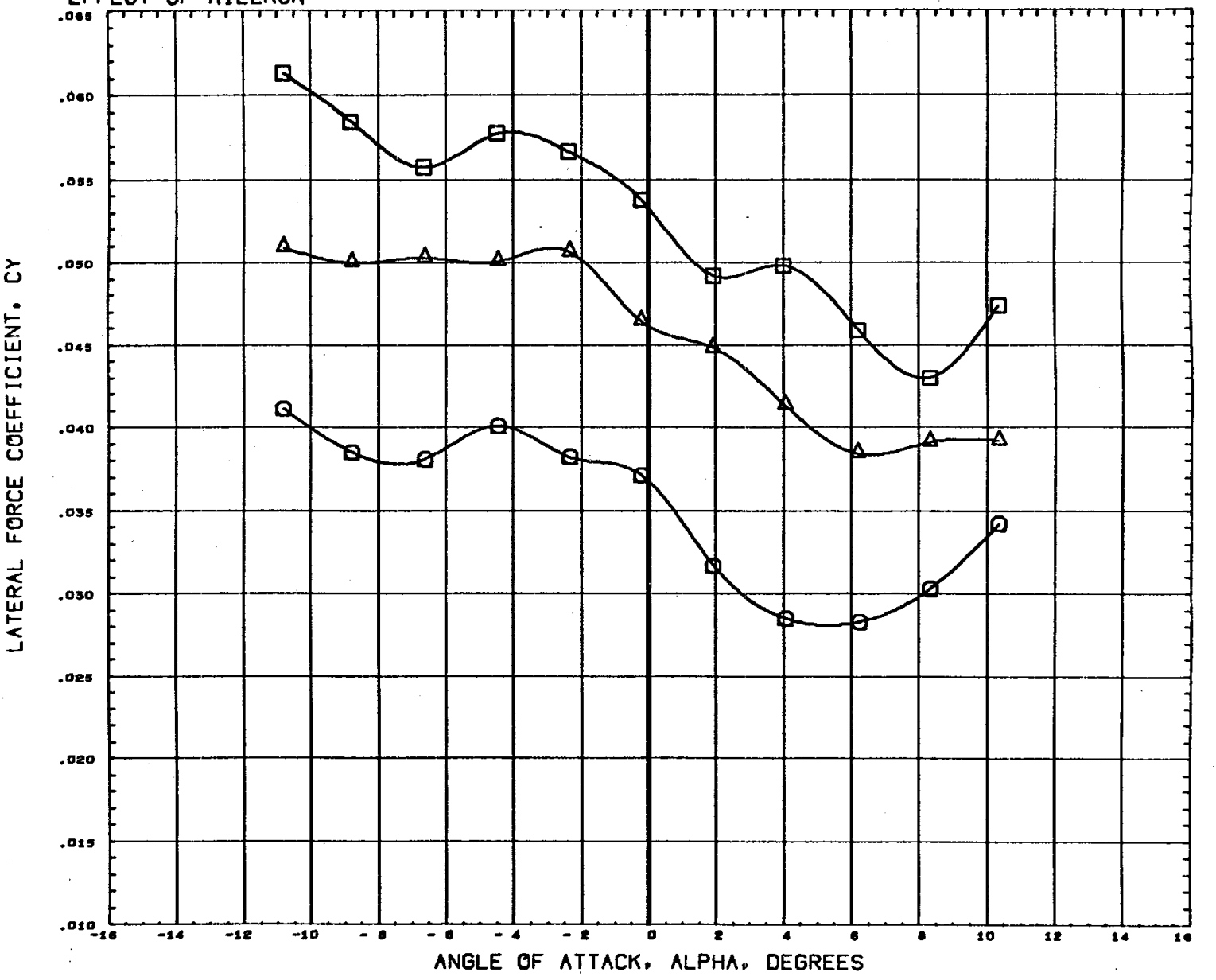


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	10.000
(A77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

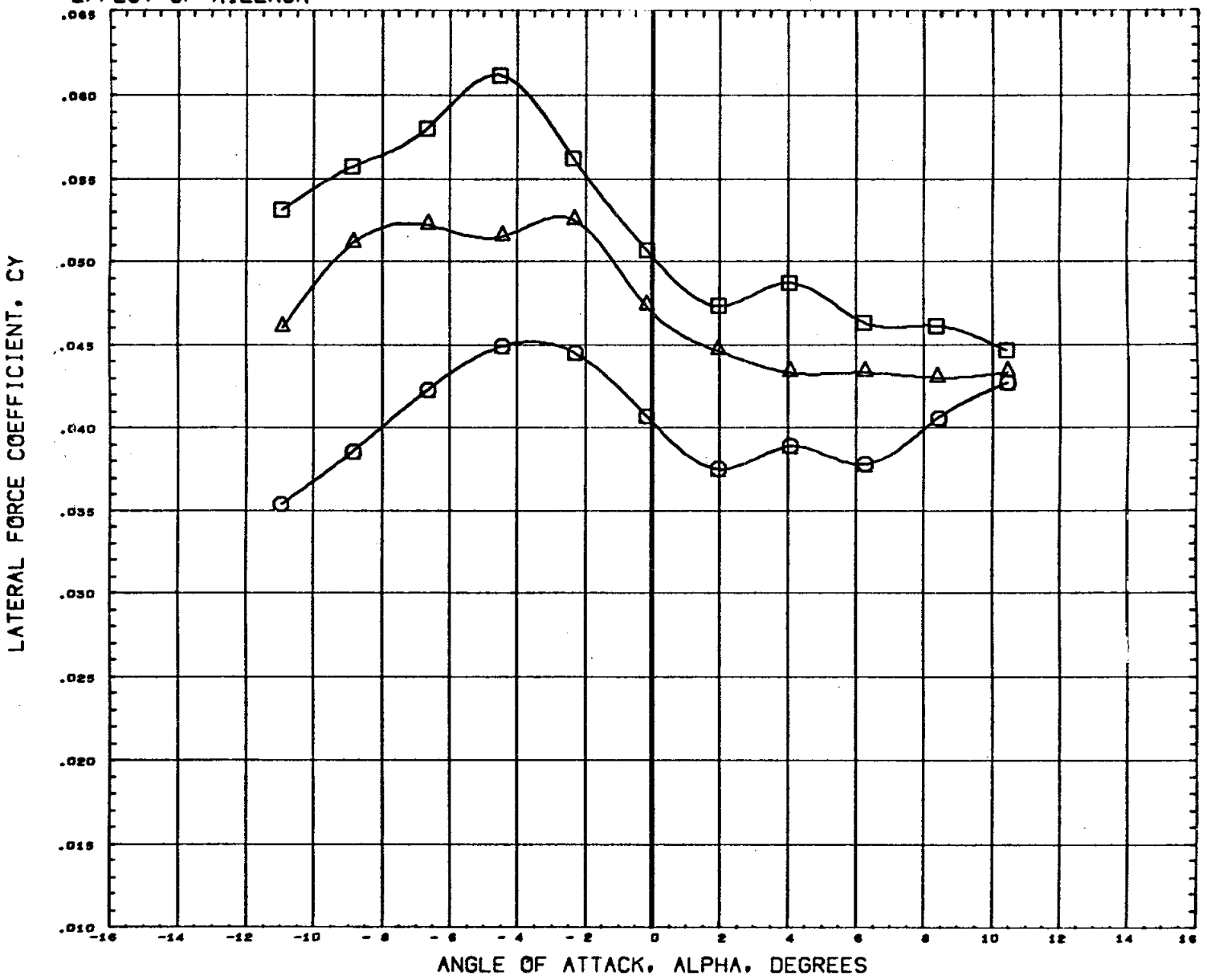


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON

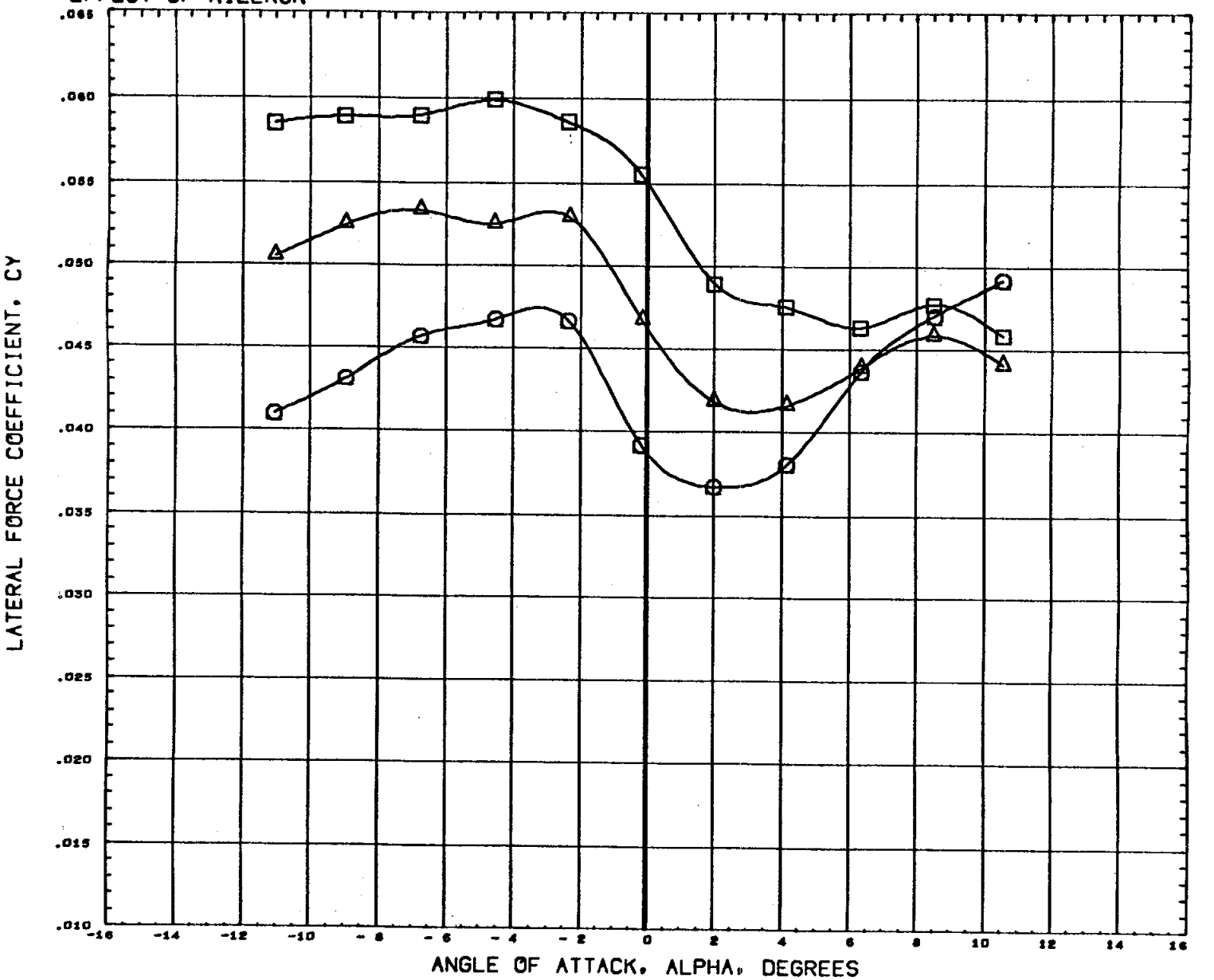


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
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BREF	5.3120	IN.
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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



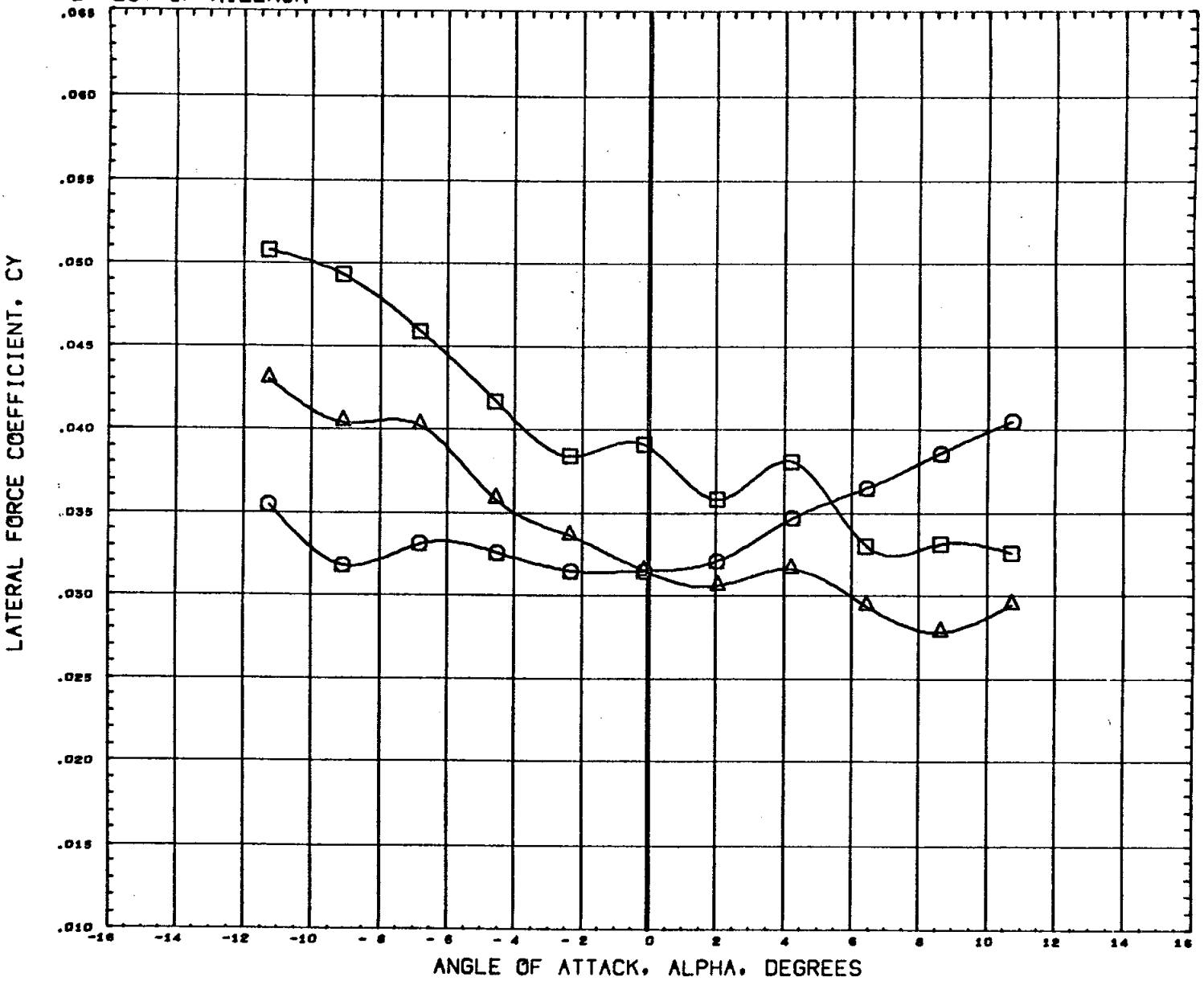
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

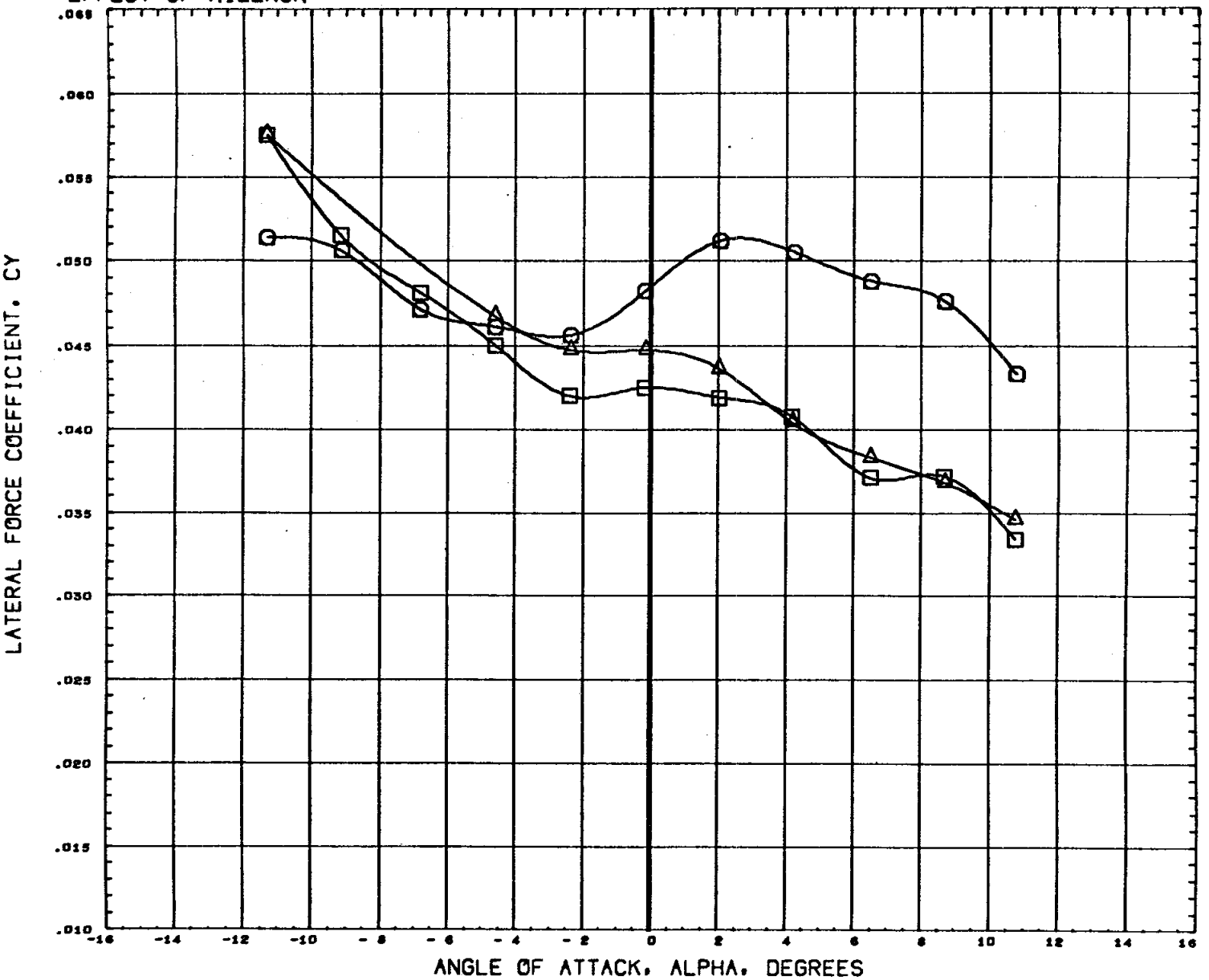


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON

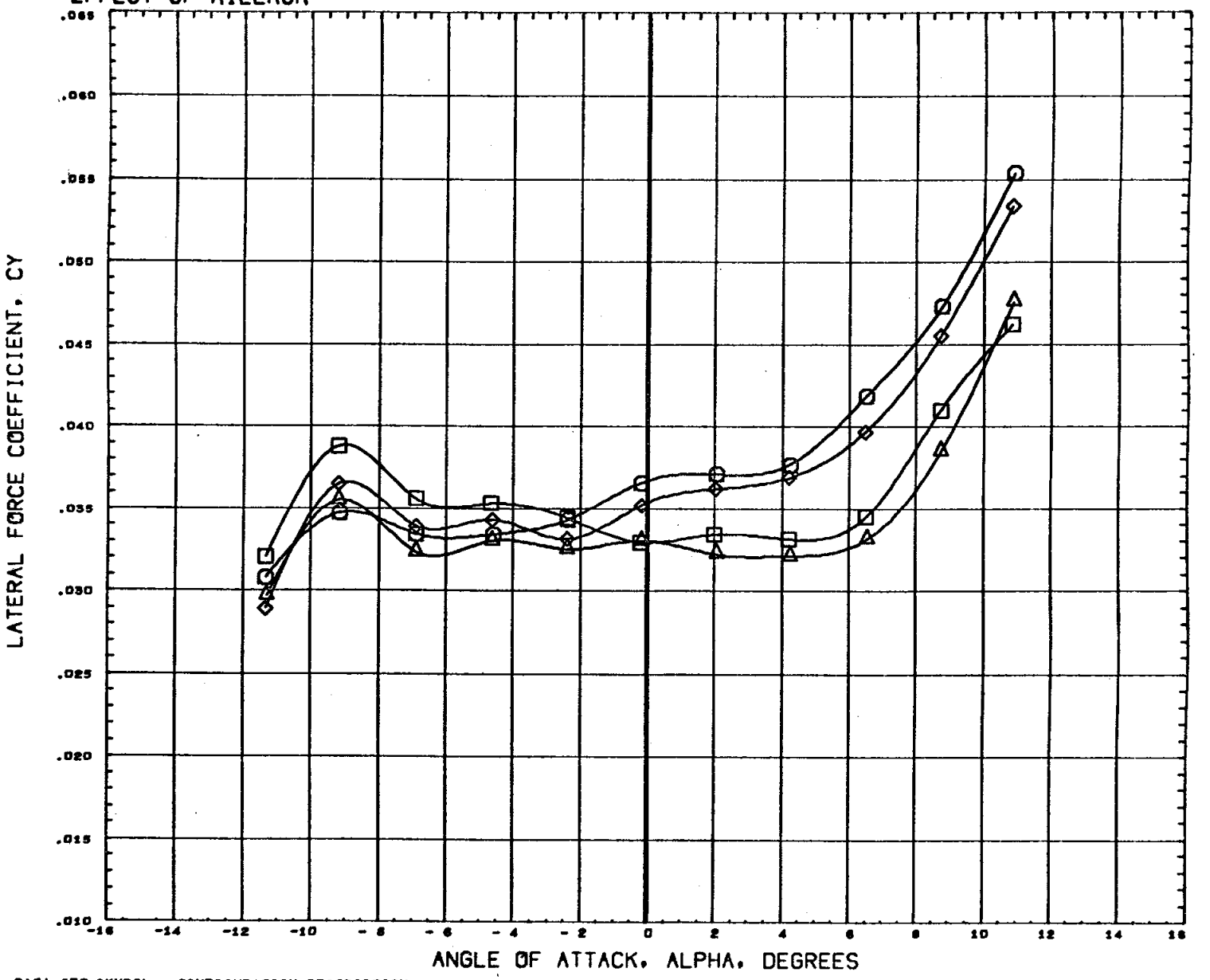


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024) ○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014) △	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034) ◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77016) □	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON

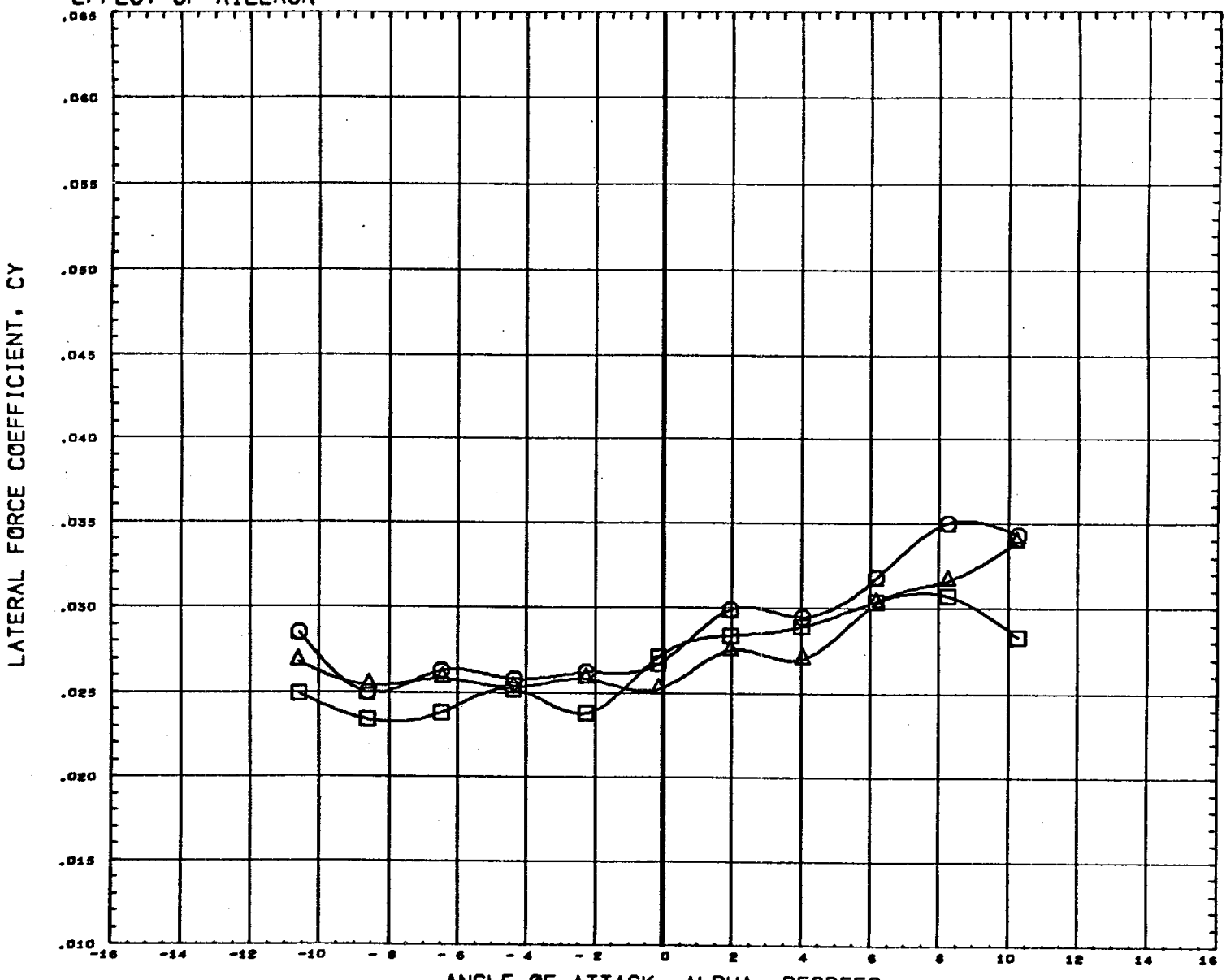


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
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BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



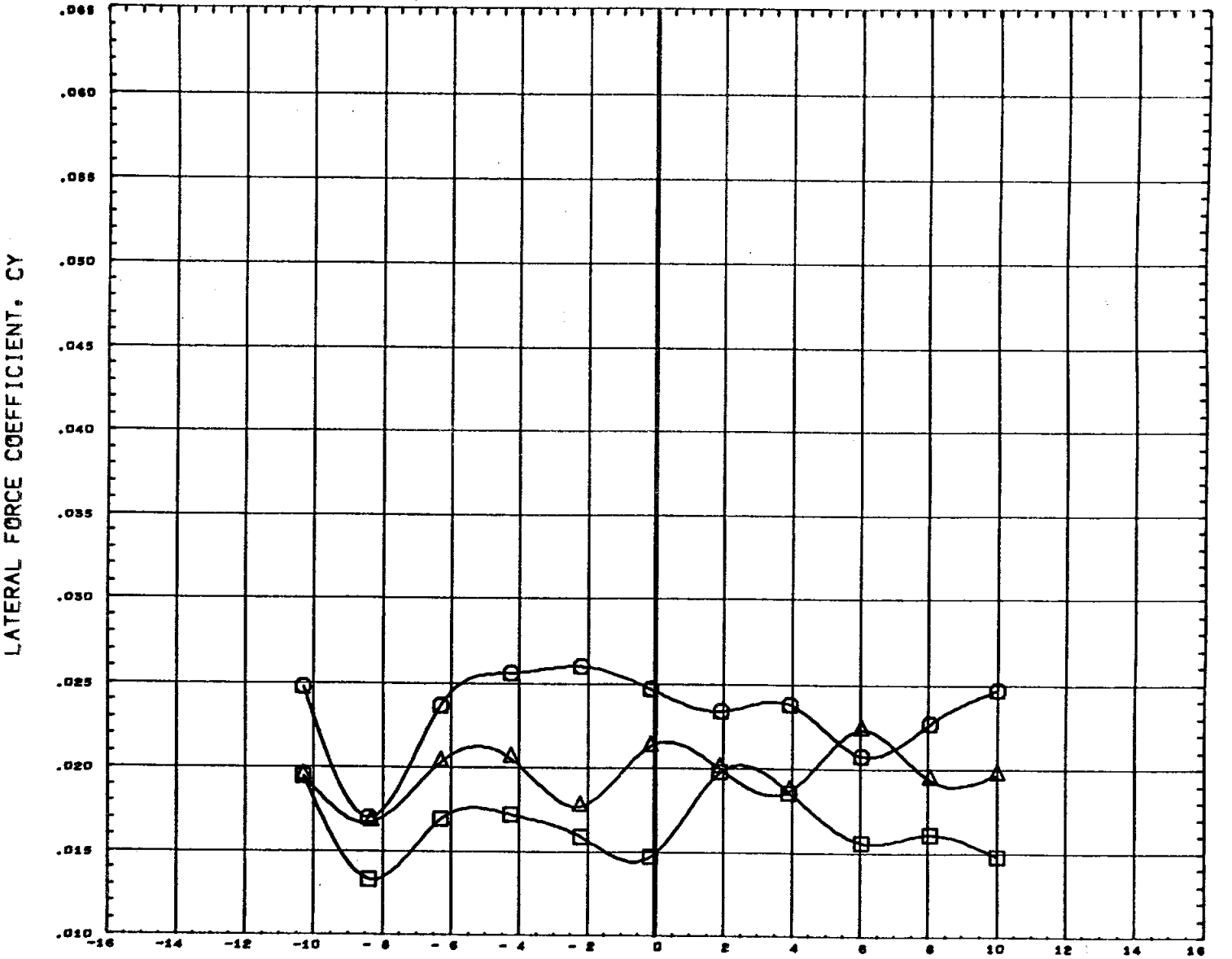
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

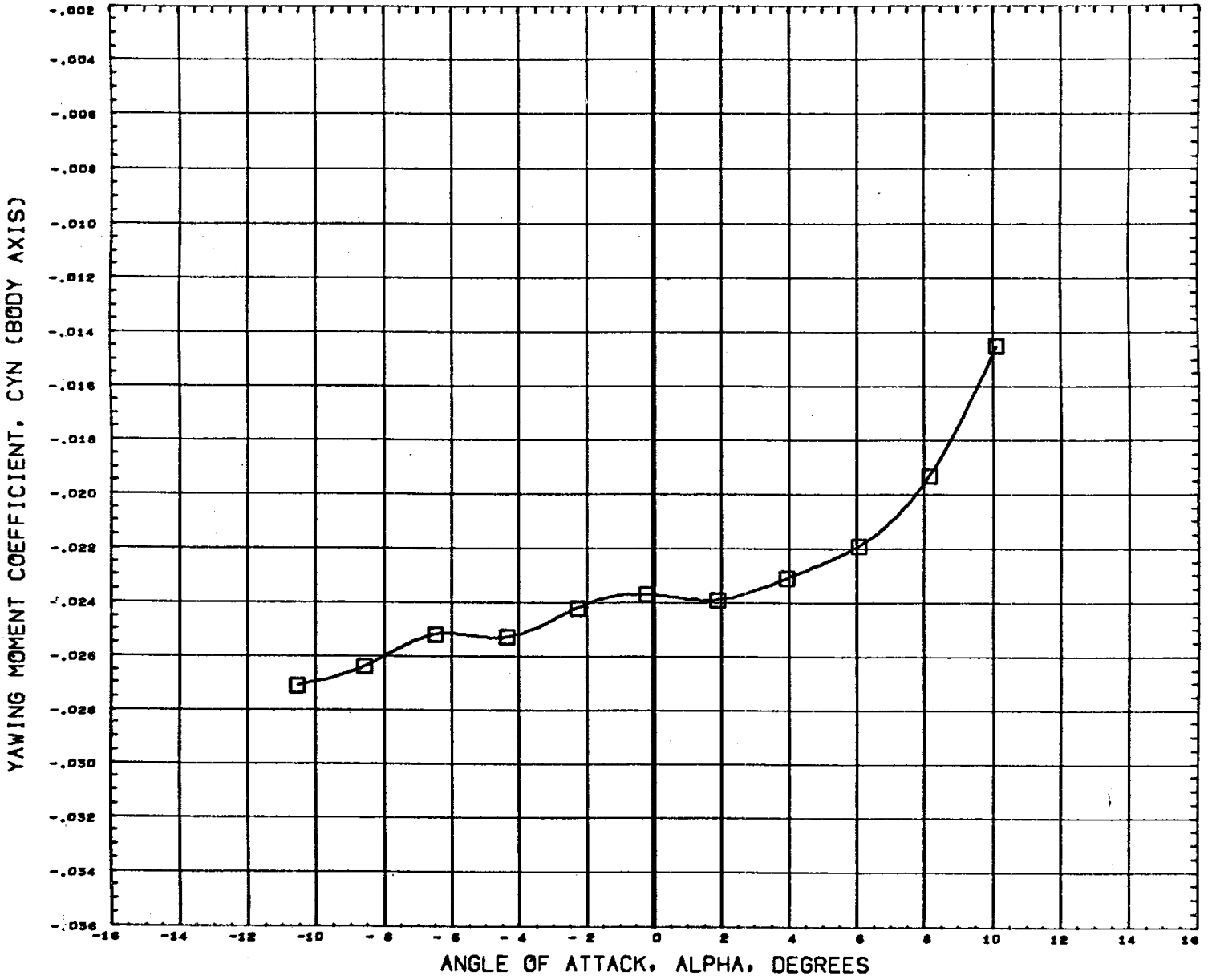
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON



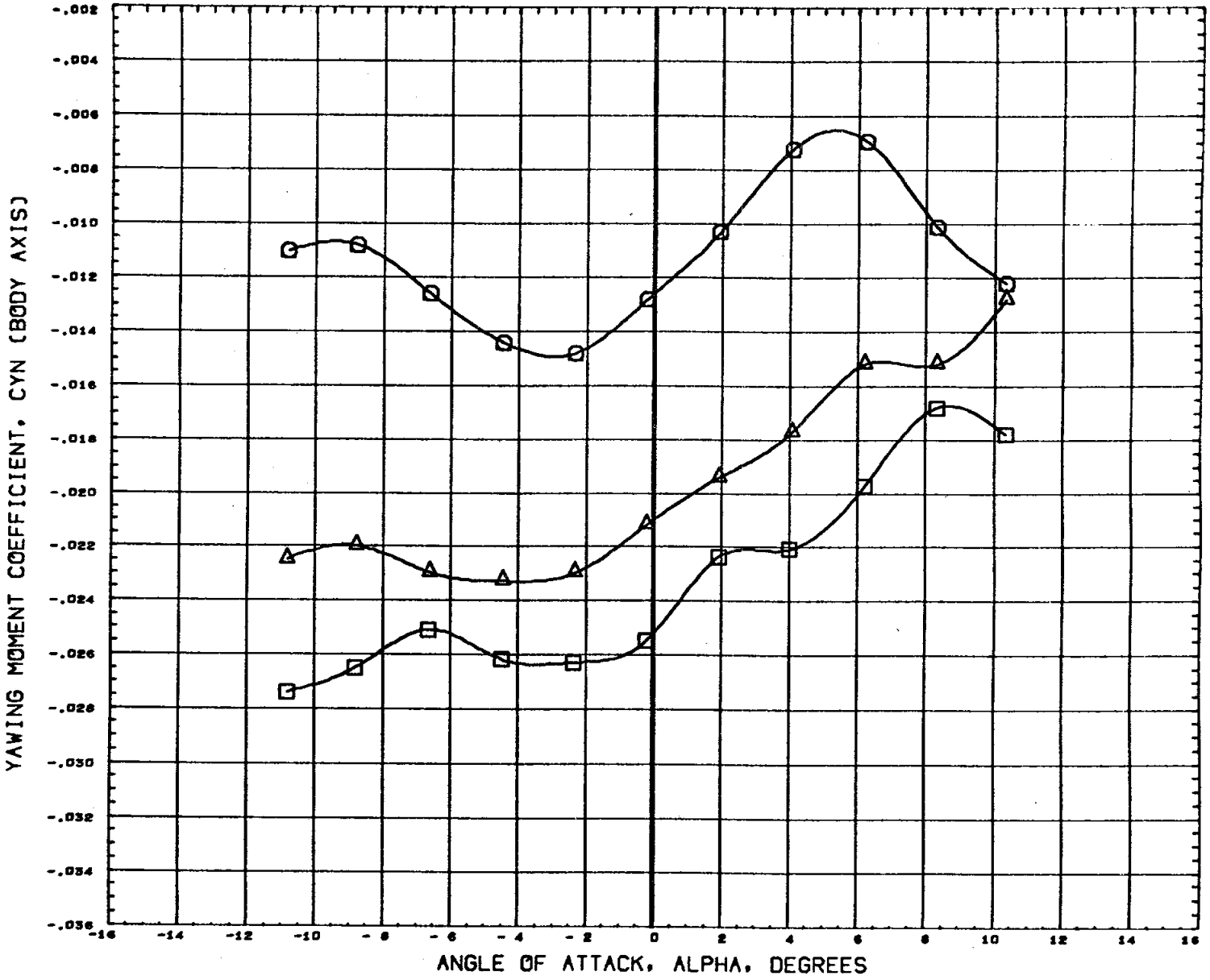
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON

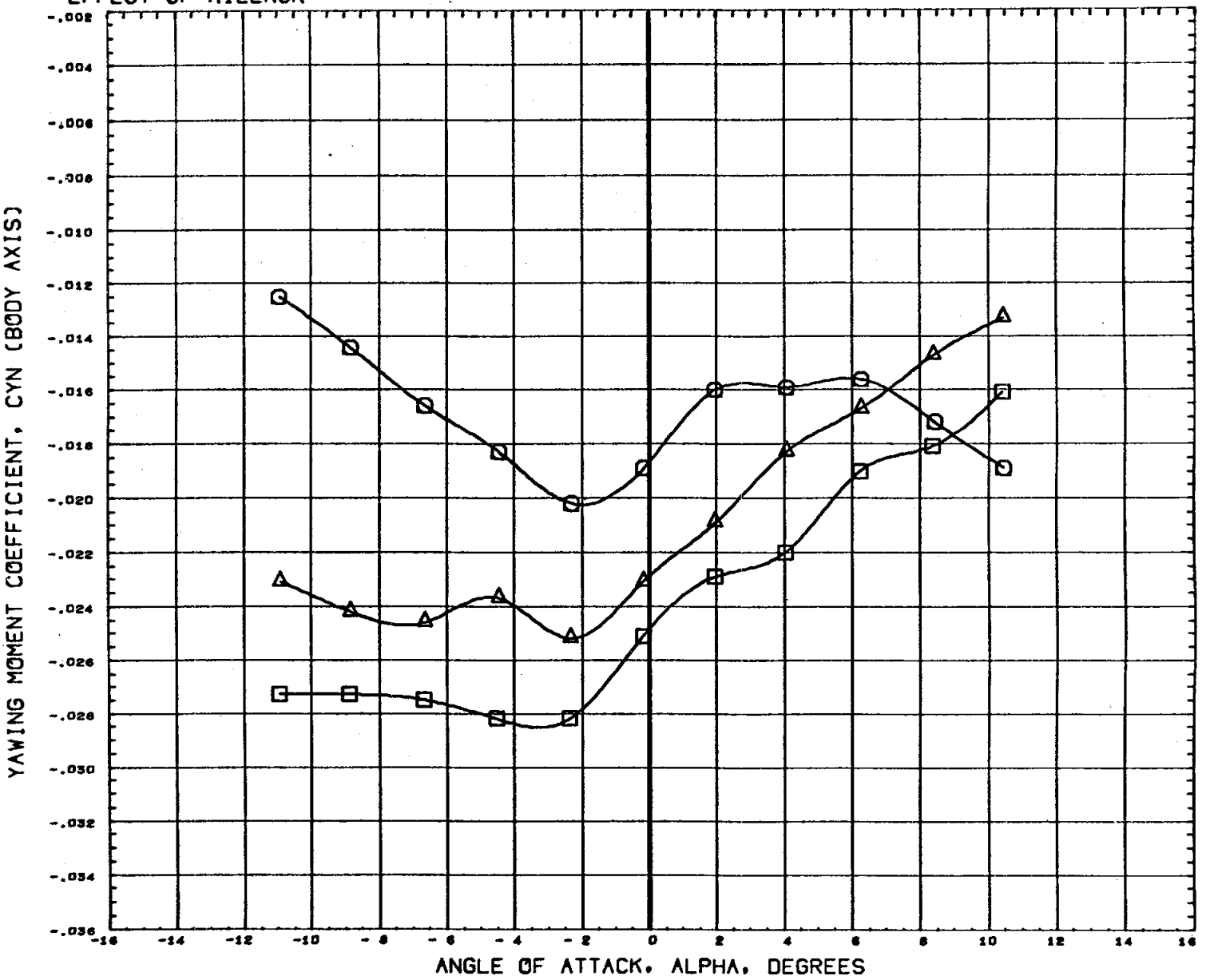


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77016)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON

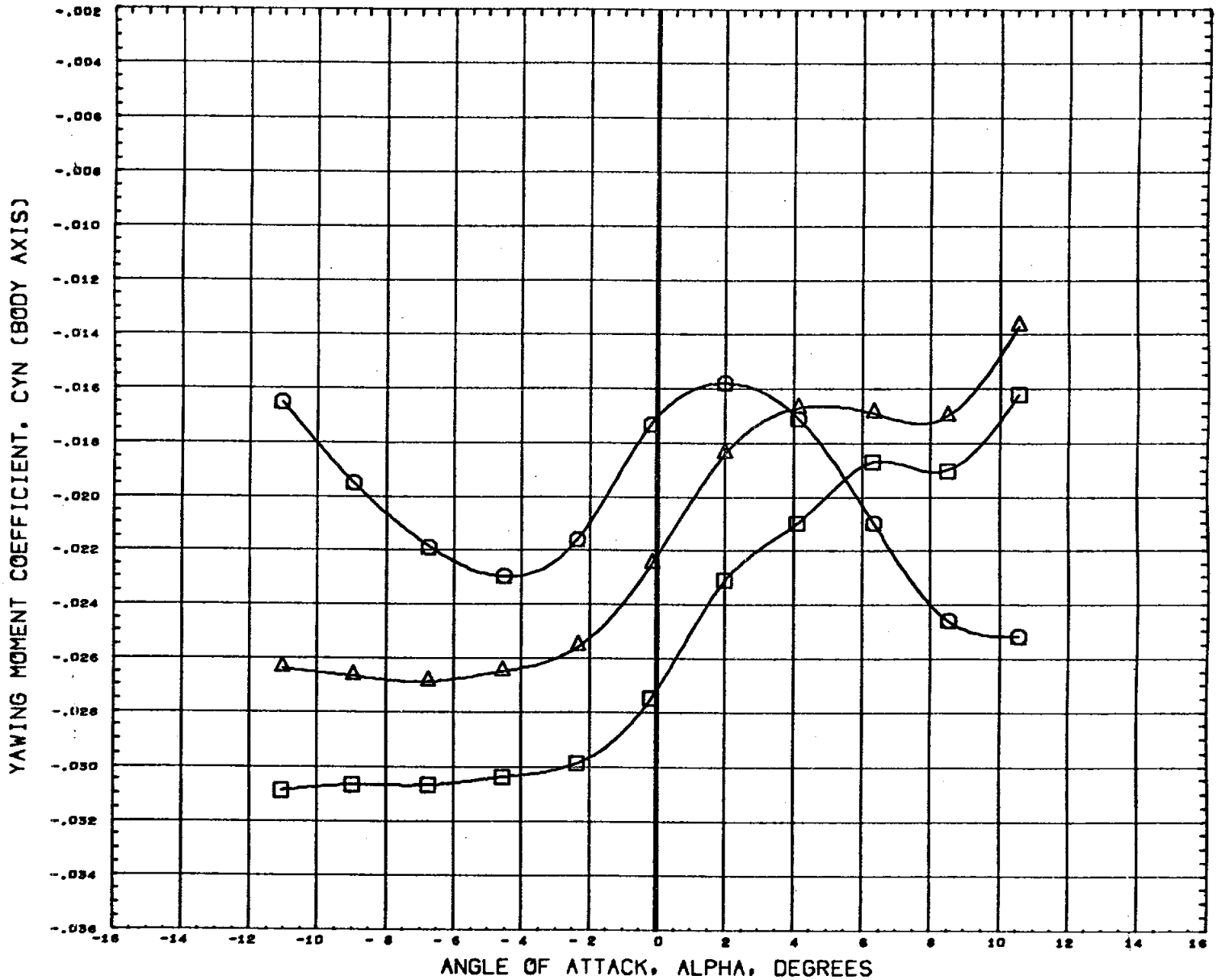


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON



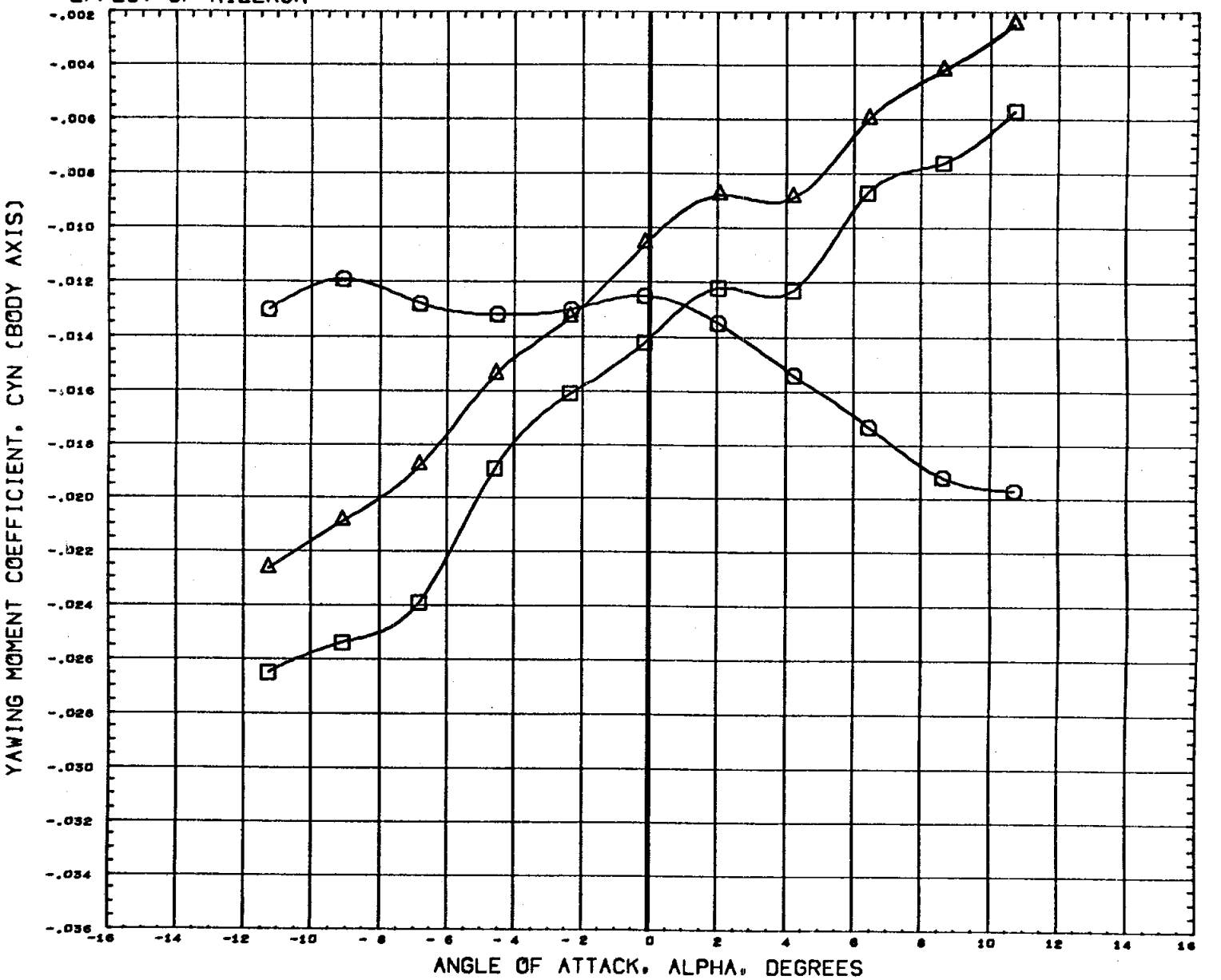
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON



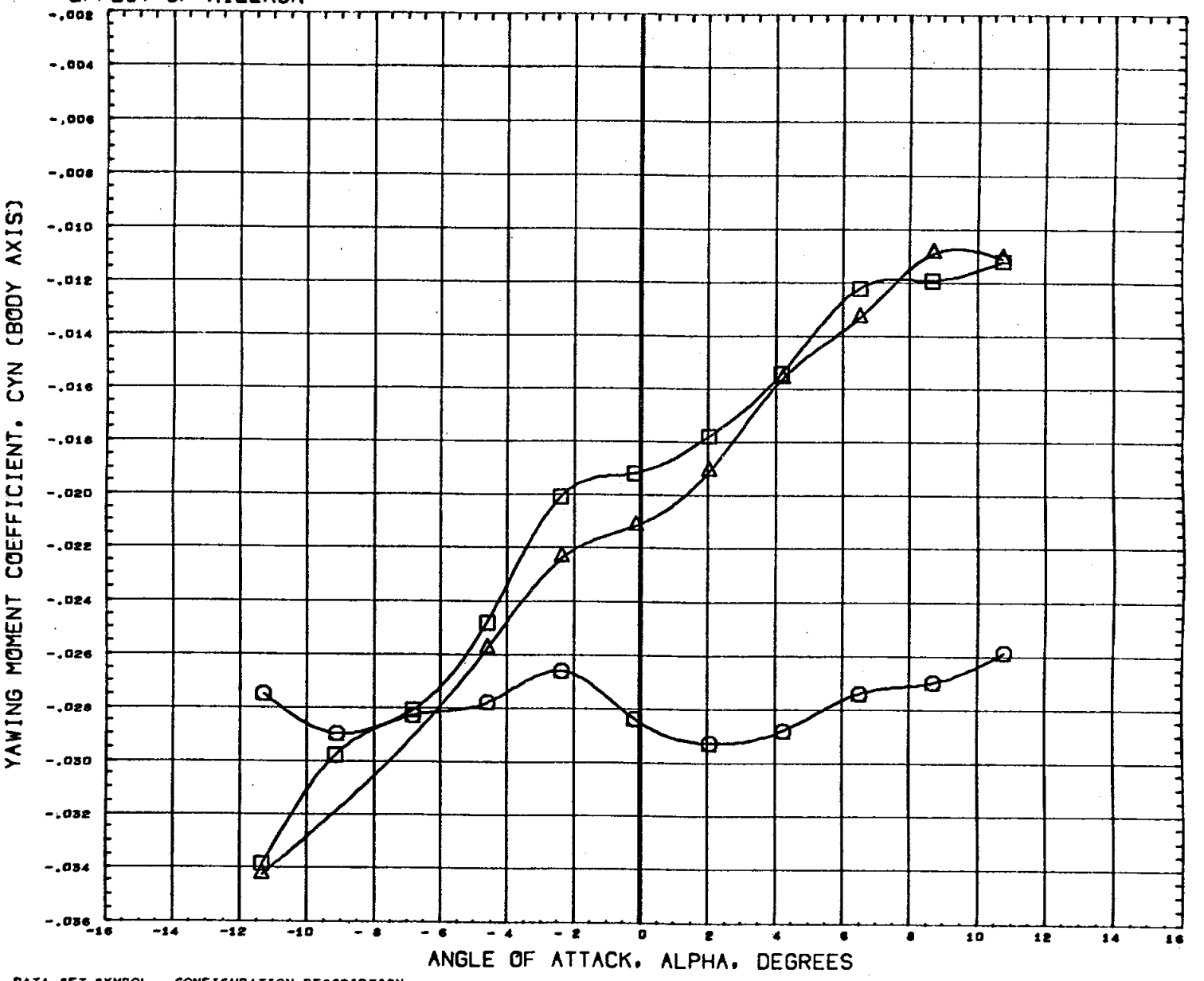
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



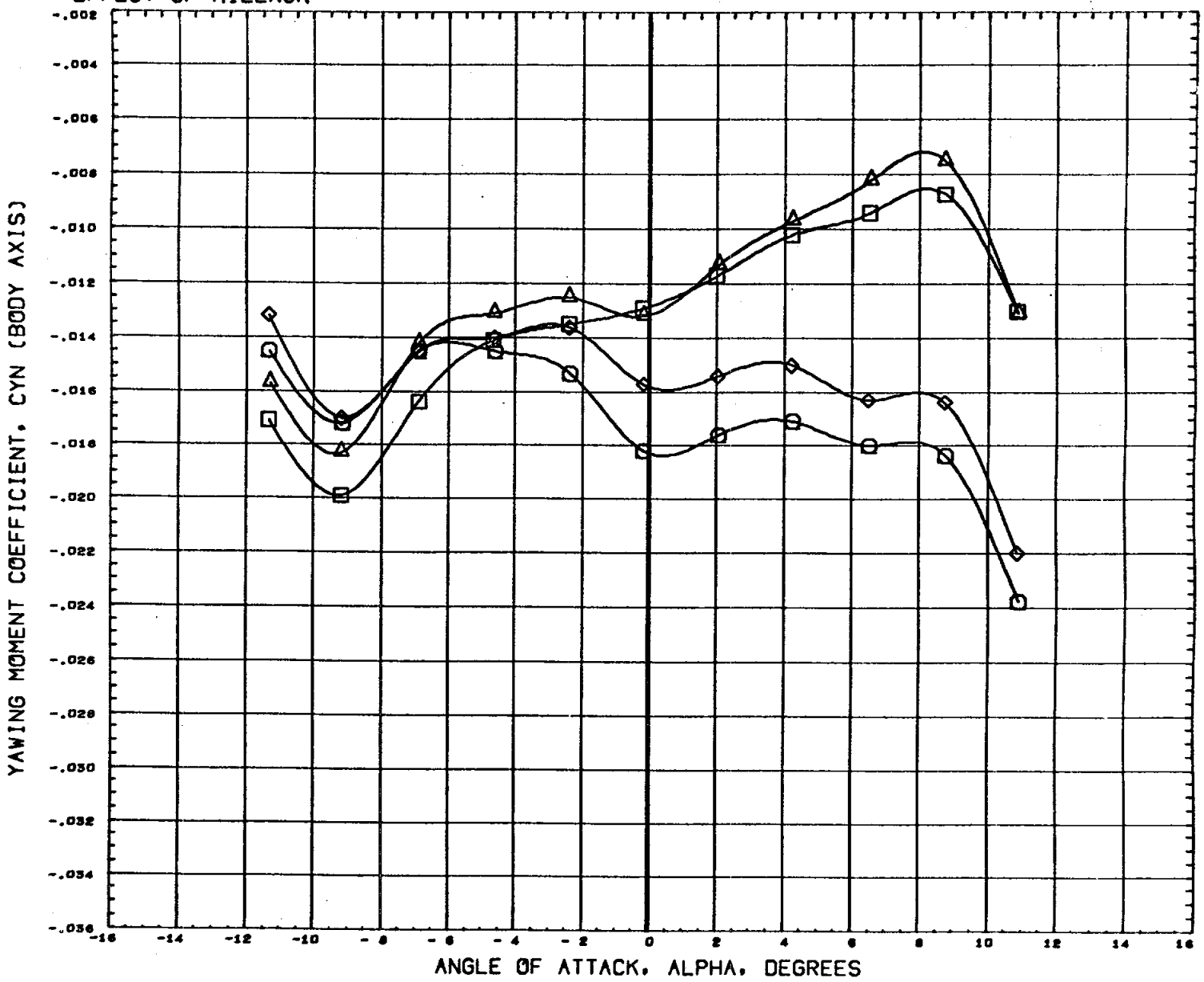
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON

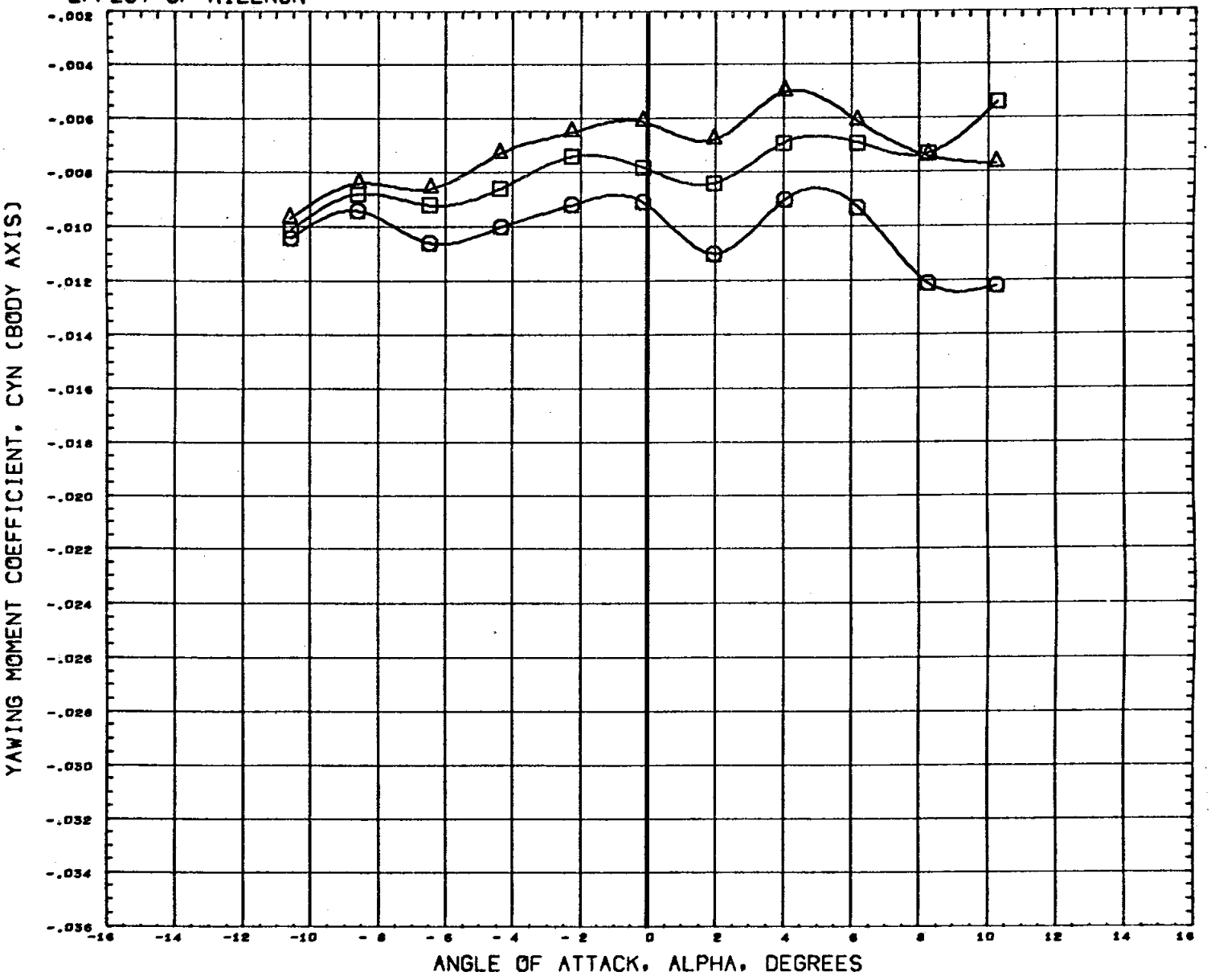


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77034)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	10.000
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON

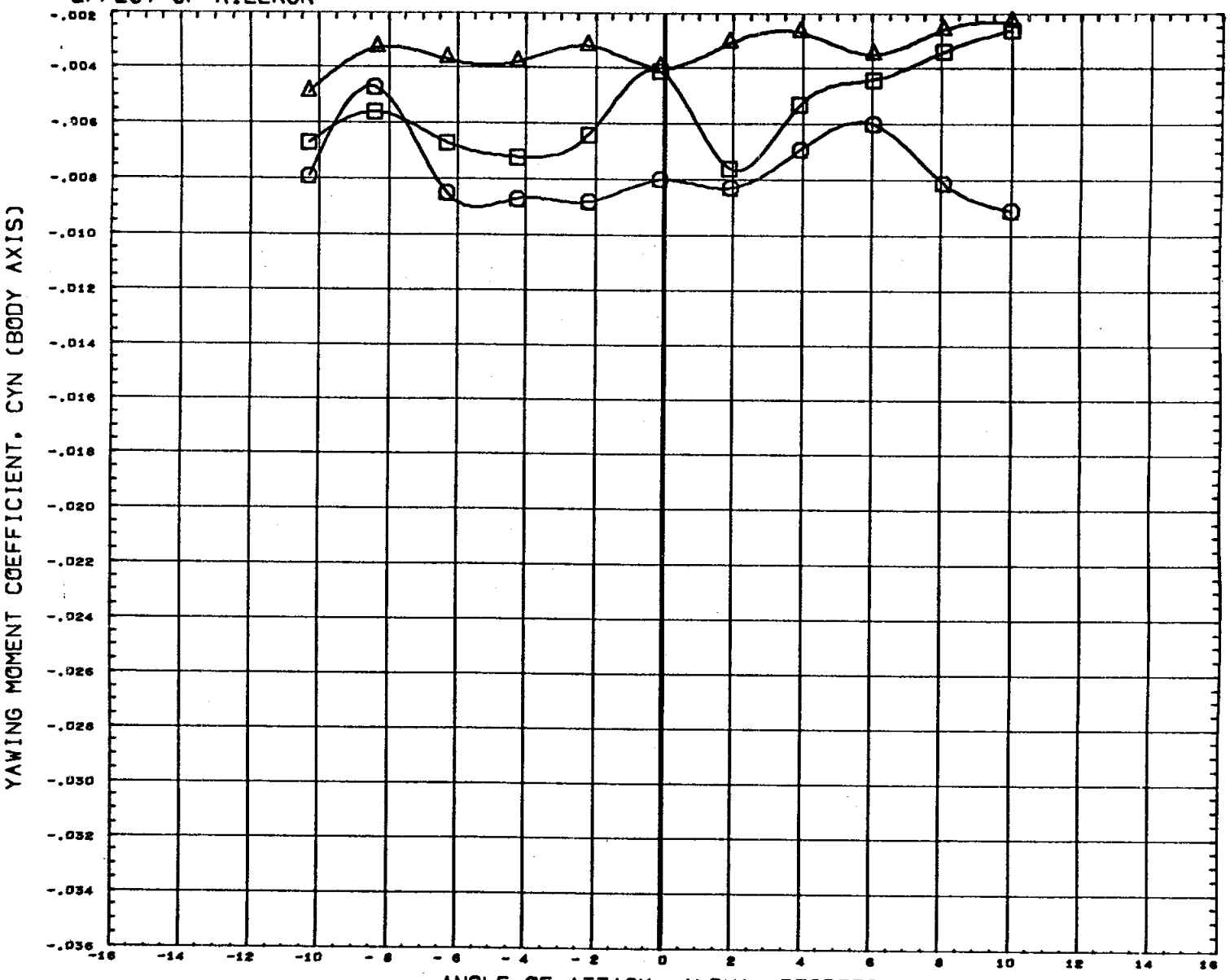


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(A77018)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



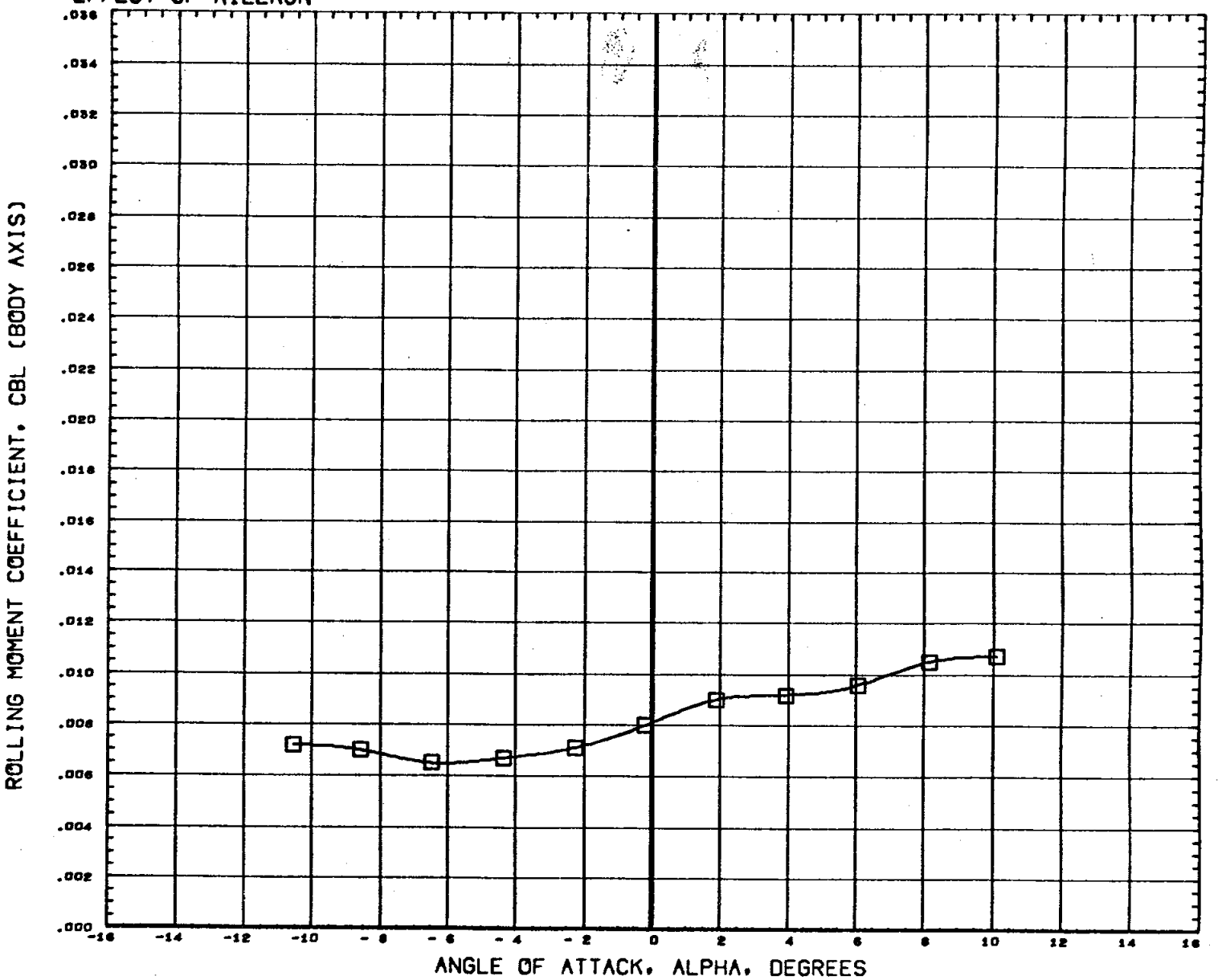
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON



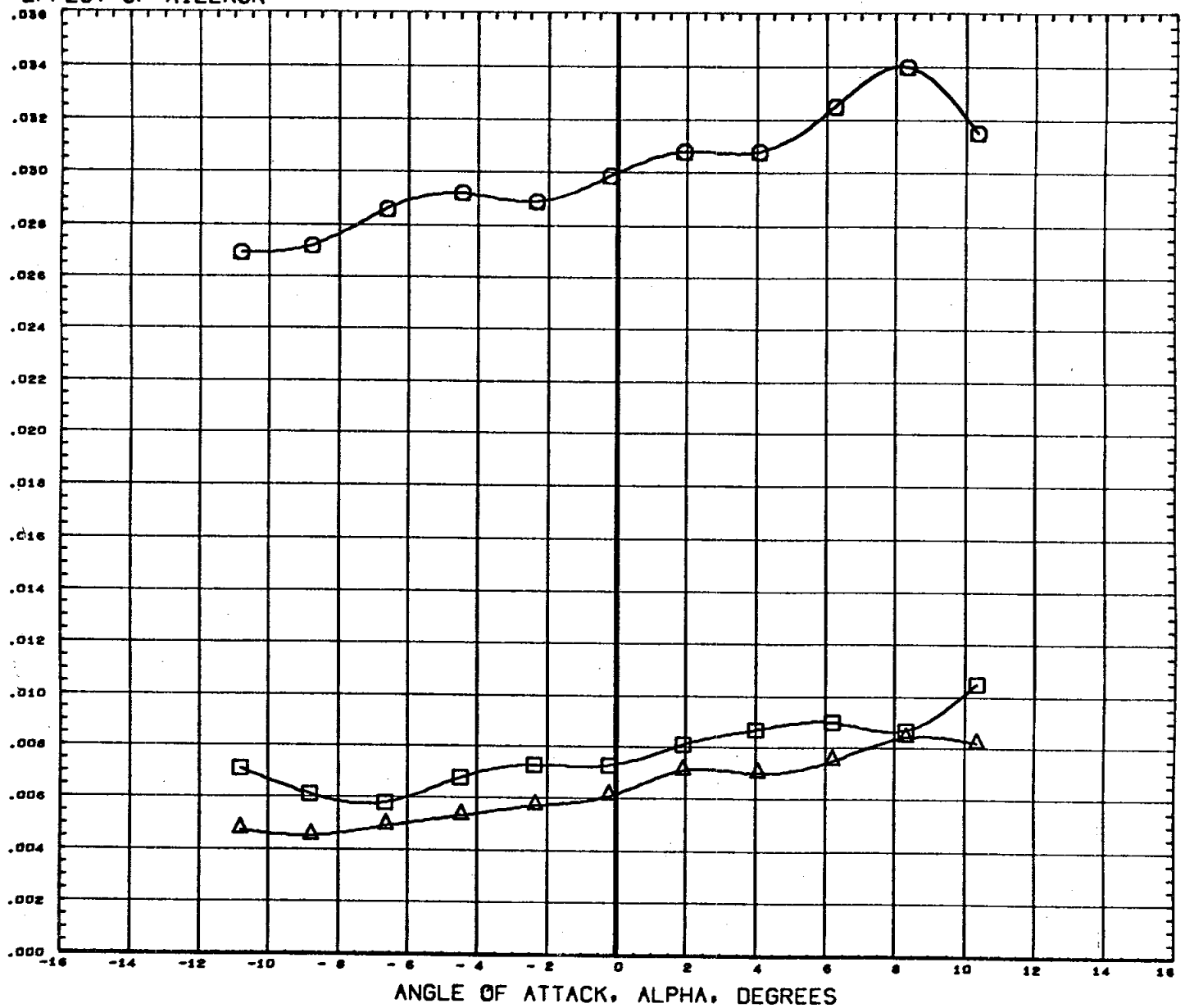
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON



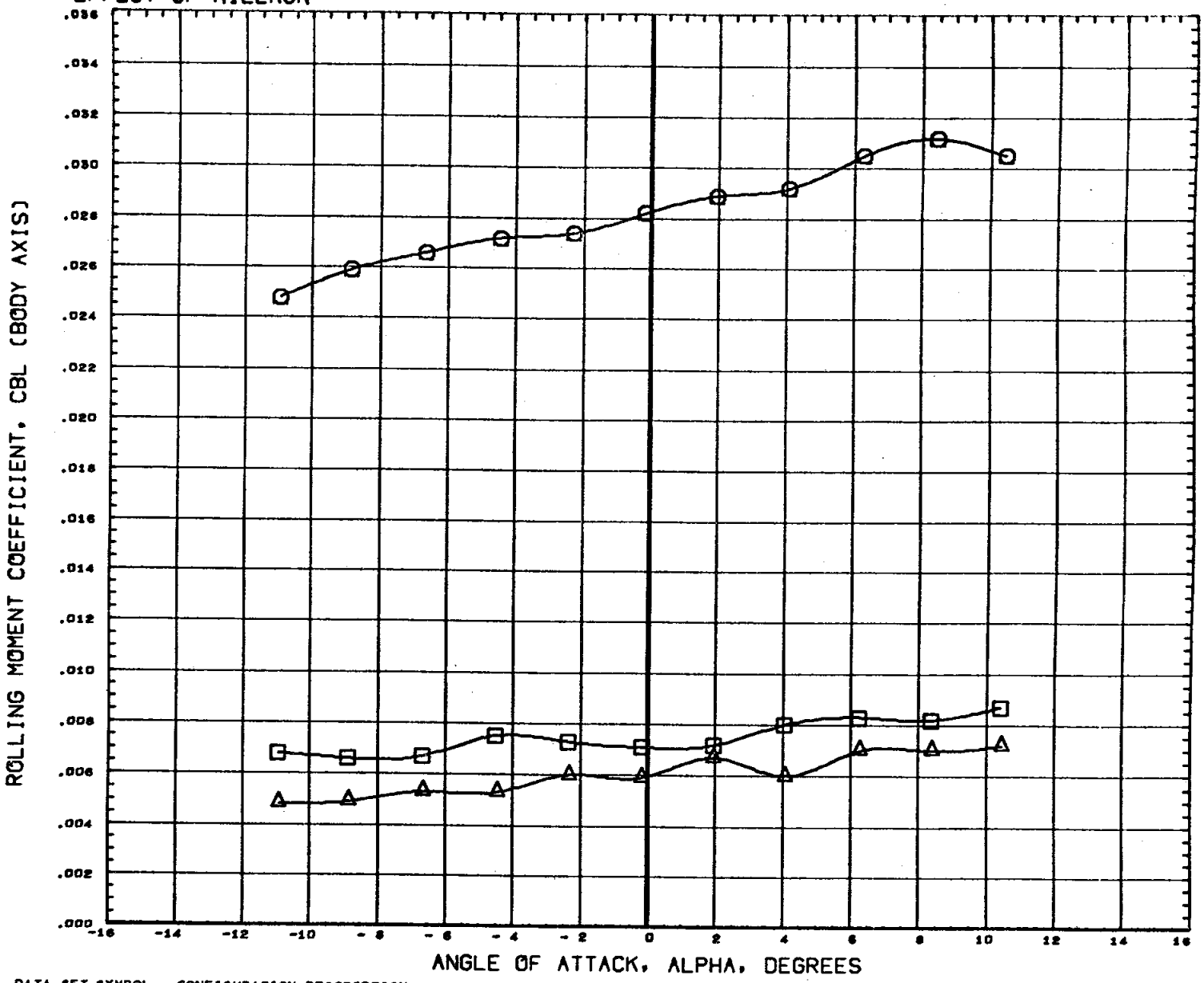
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON



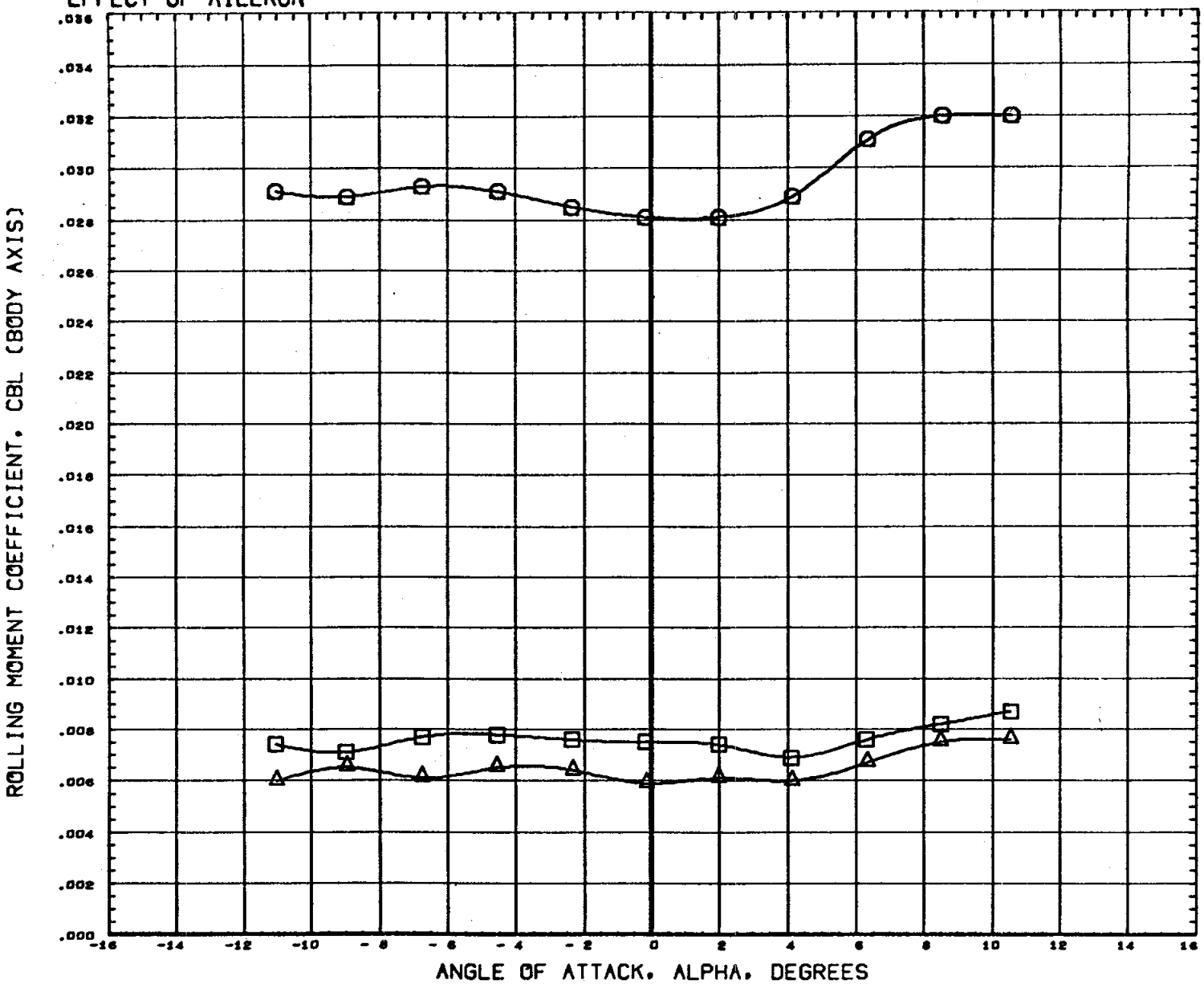
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON

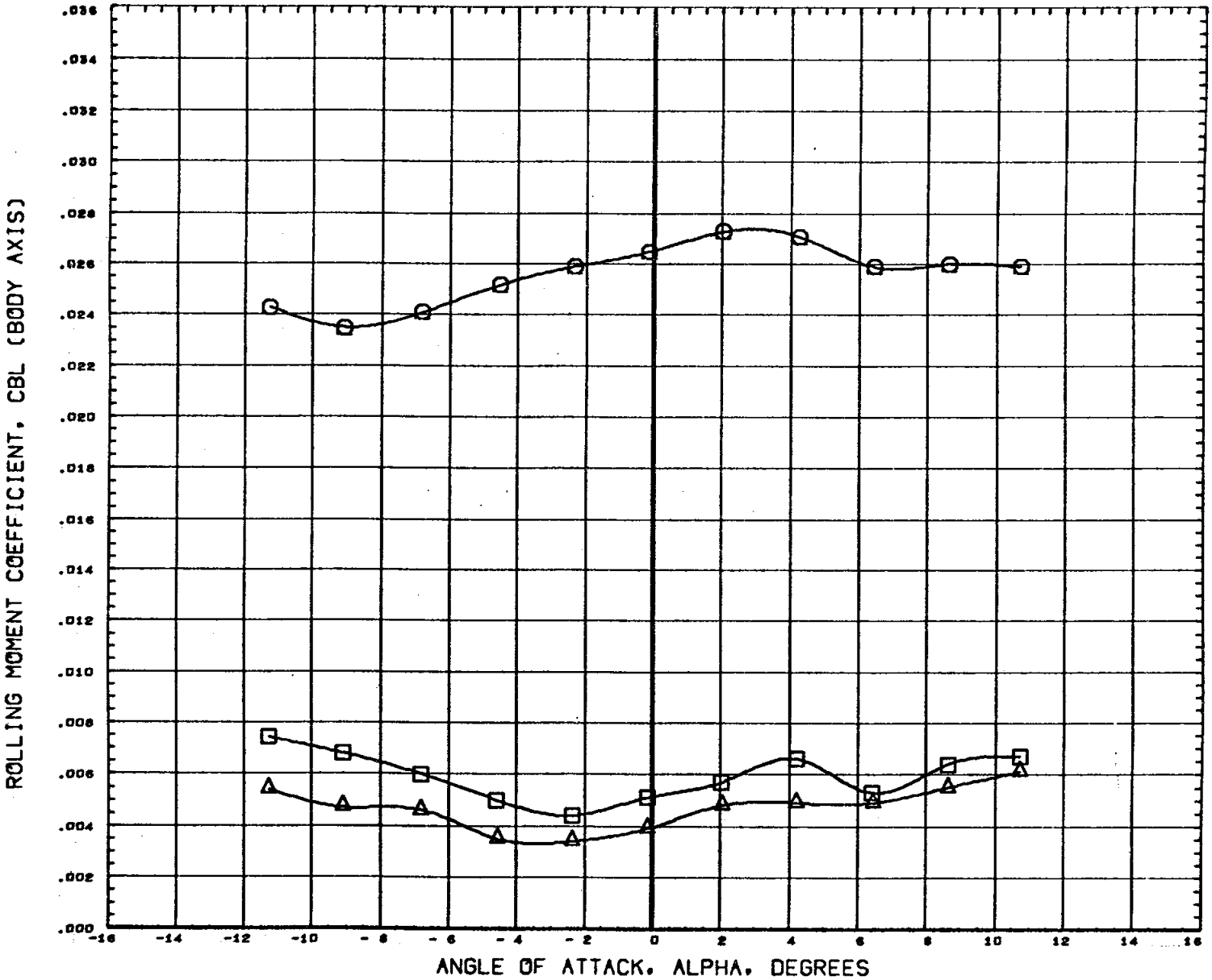


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	0.000	10.000
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON

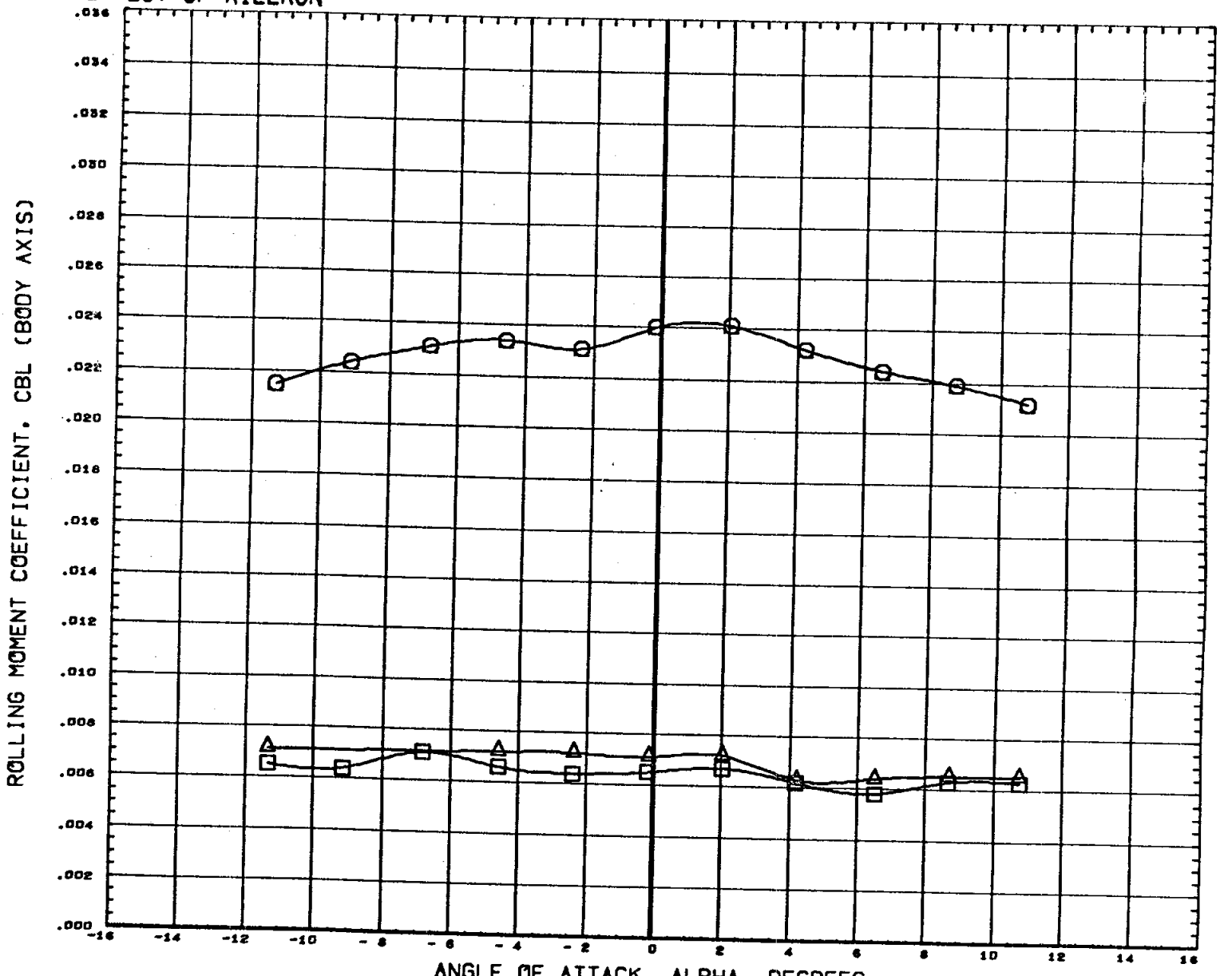


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF AILERON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

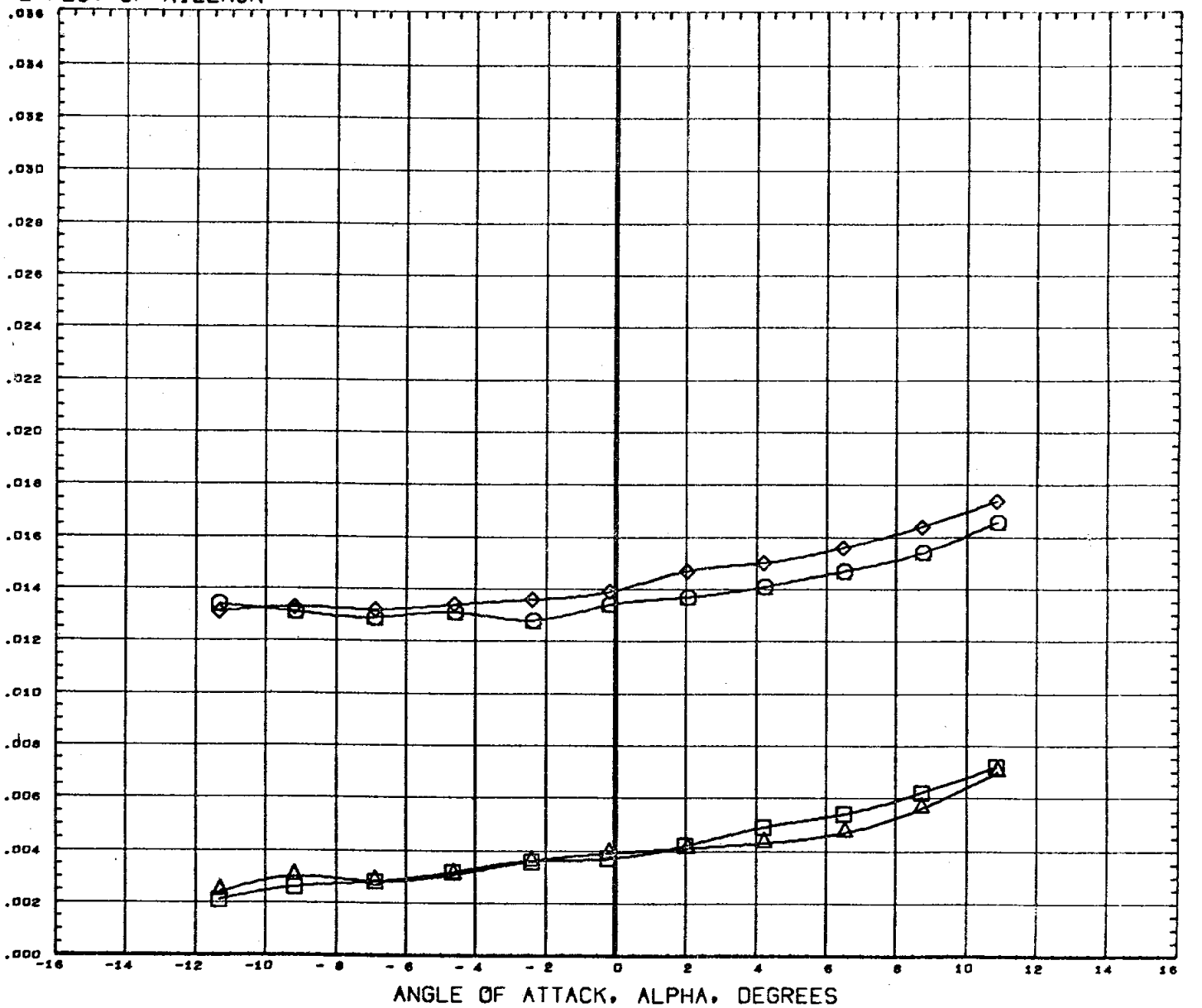
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000
80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF AILERON

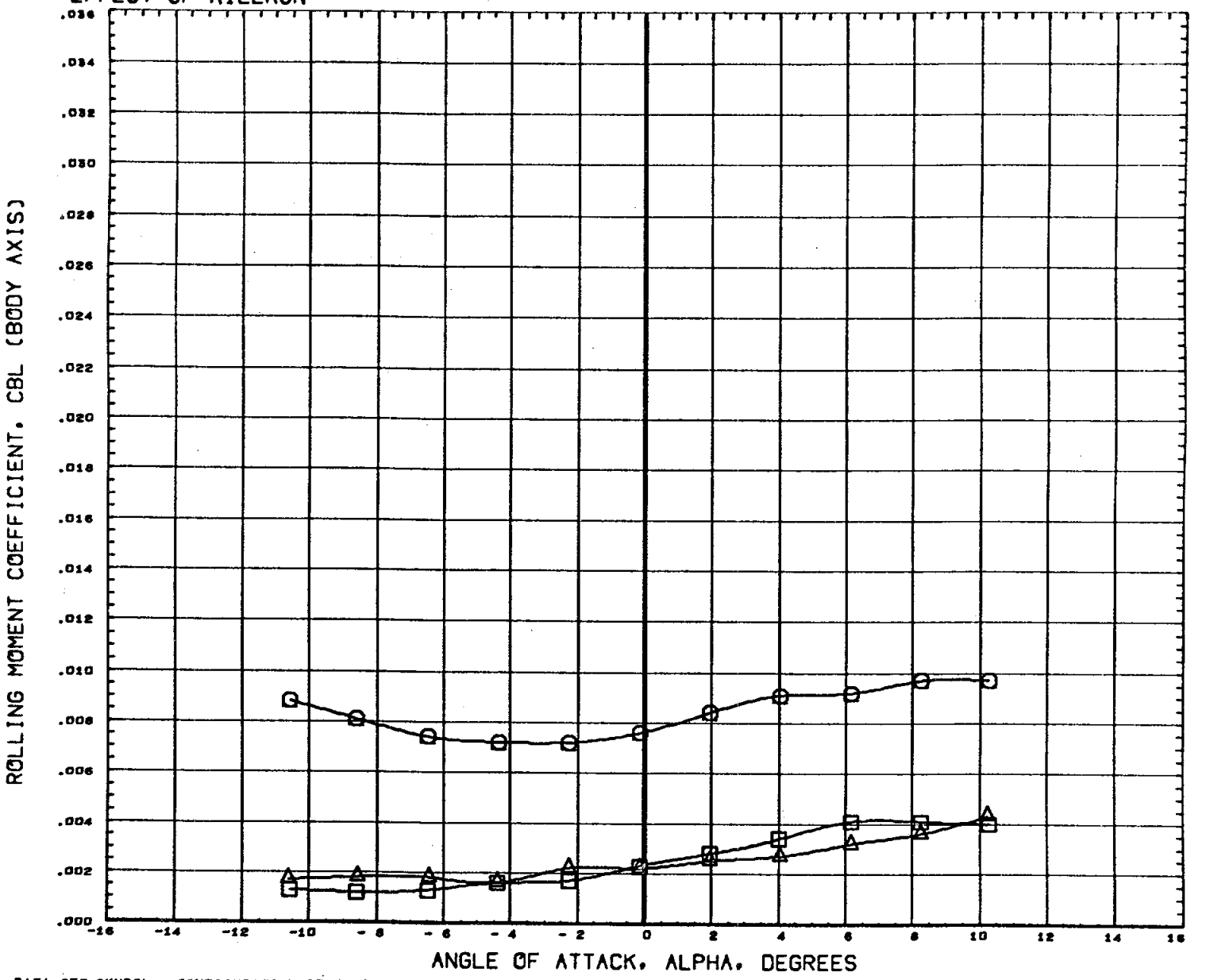


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	10.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77034)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	10.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF AILERON



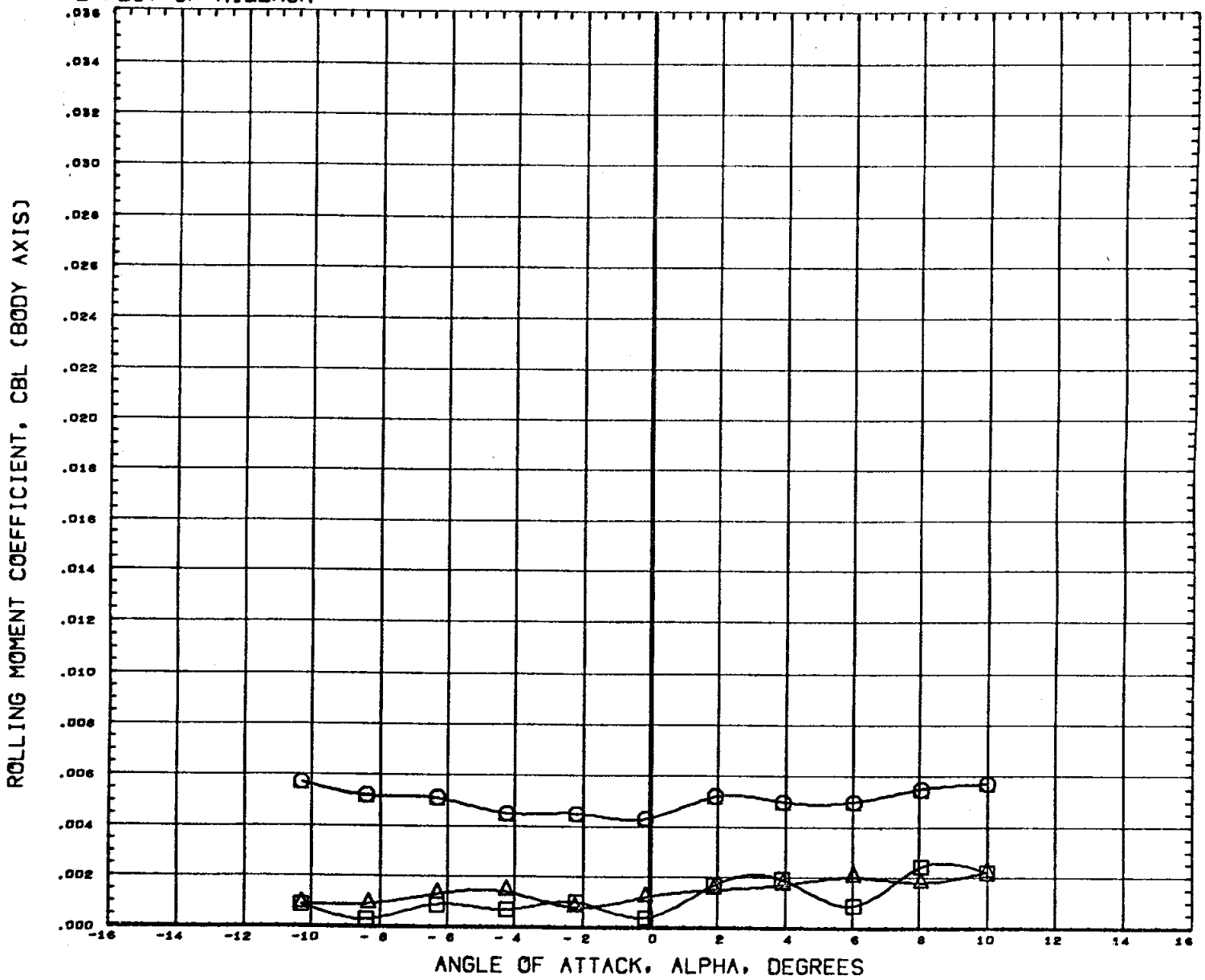
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77024)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77034)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	0.000	10.000
60.000	0.000	0.000	0.000
60.000	-1.200	0.000	10.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF AILERON



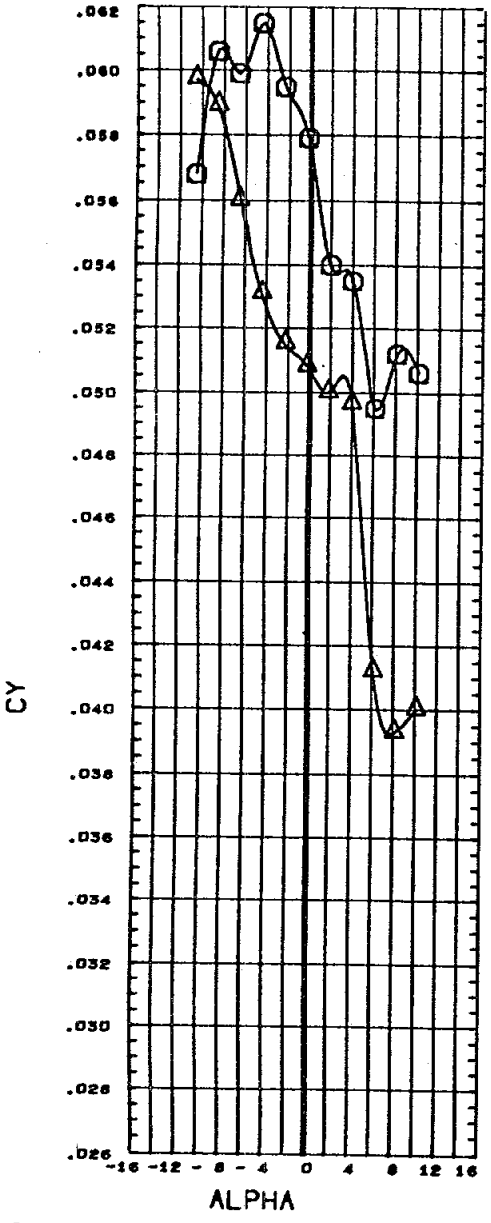
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(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

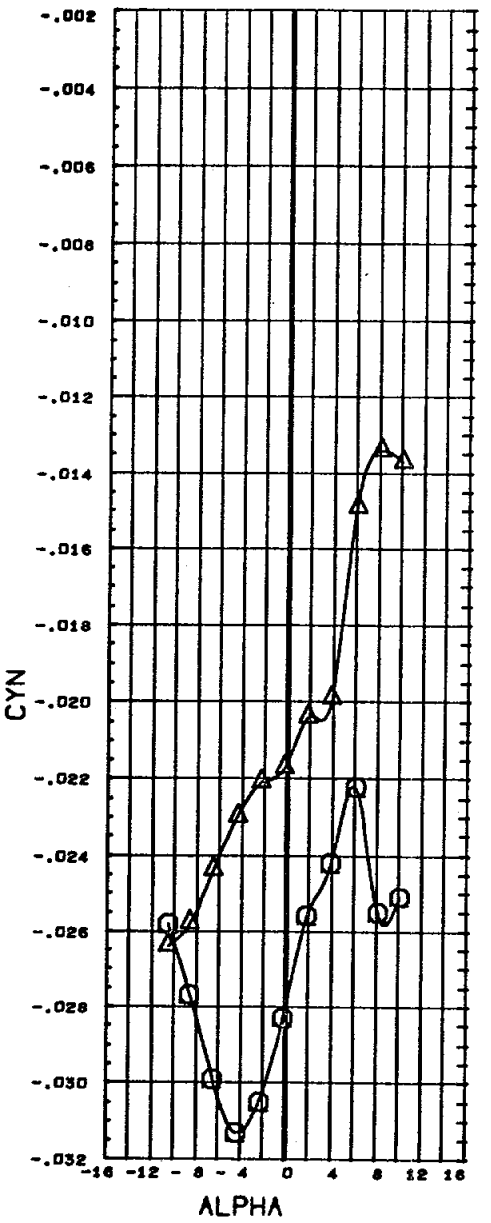
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80.000	-1.200	0.000	10.000
80.000	-1.200	0.000	0.000

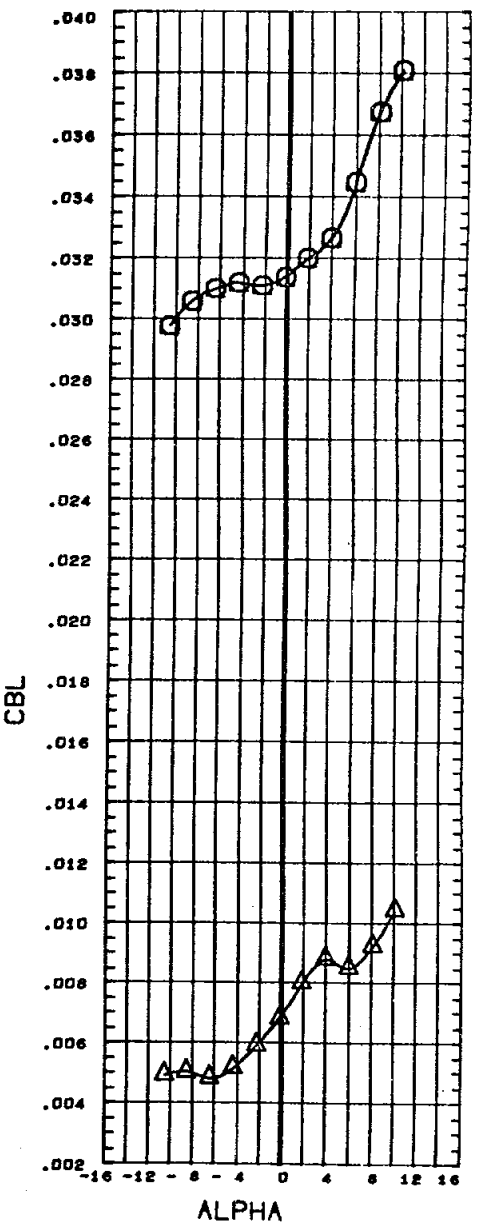
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BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF AILERON







DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(A77026)	○	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)
(A77016)	△	M556(IA1) NAR ATP BL LV (O2) (T1) (S1)

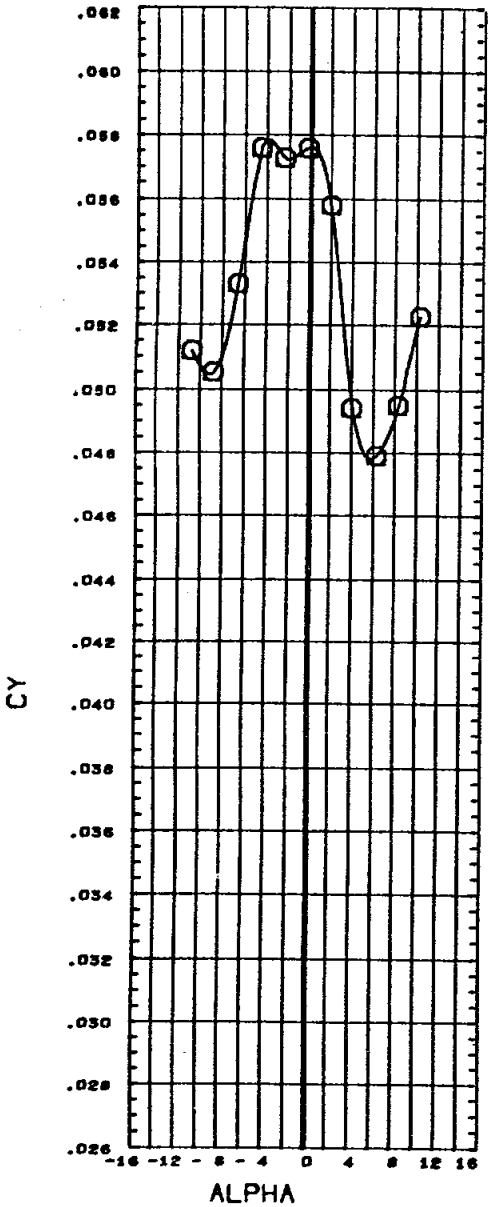
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80.000	0.000	0.000	0.000

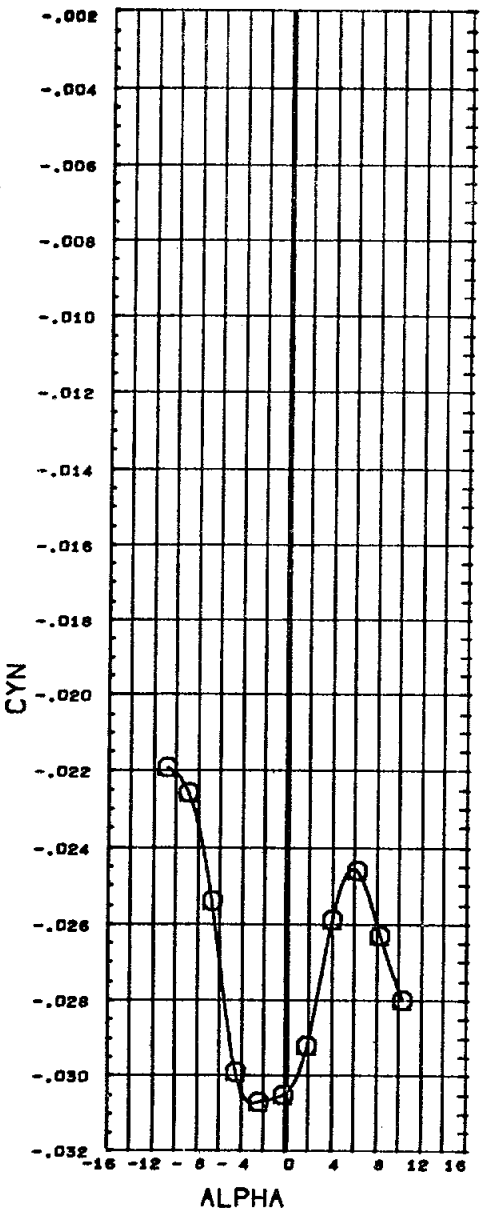
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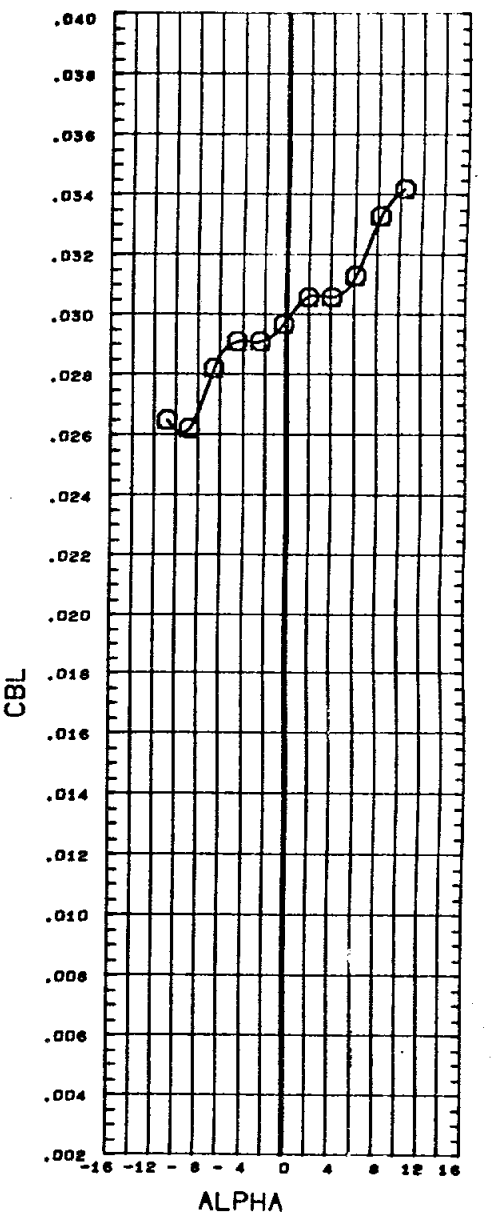
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BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF AILERON







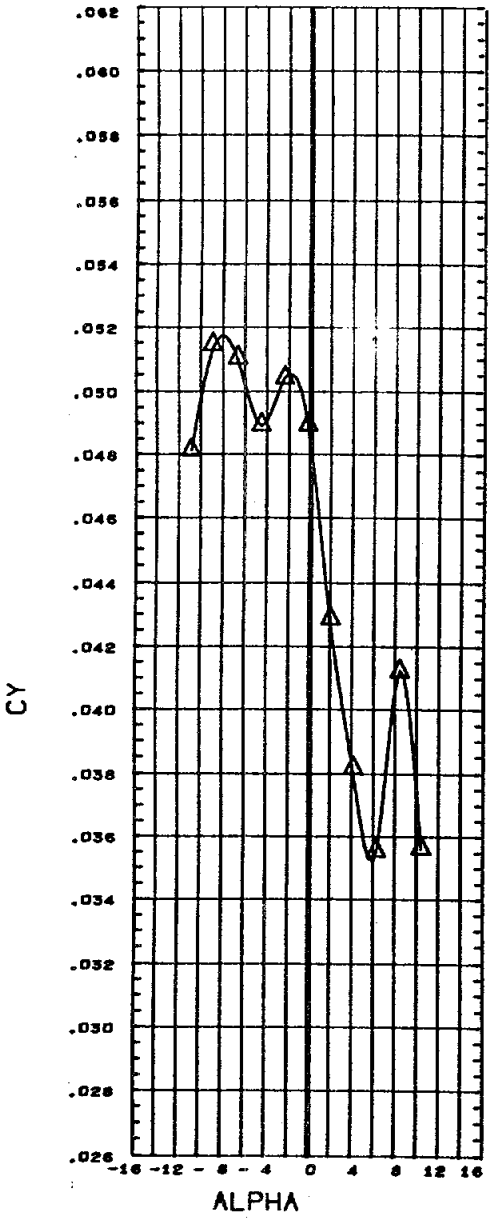
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(A77016)		DATA NOT AVAILABLE FOR ALL CONDITIONS

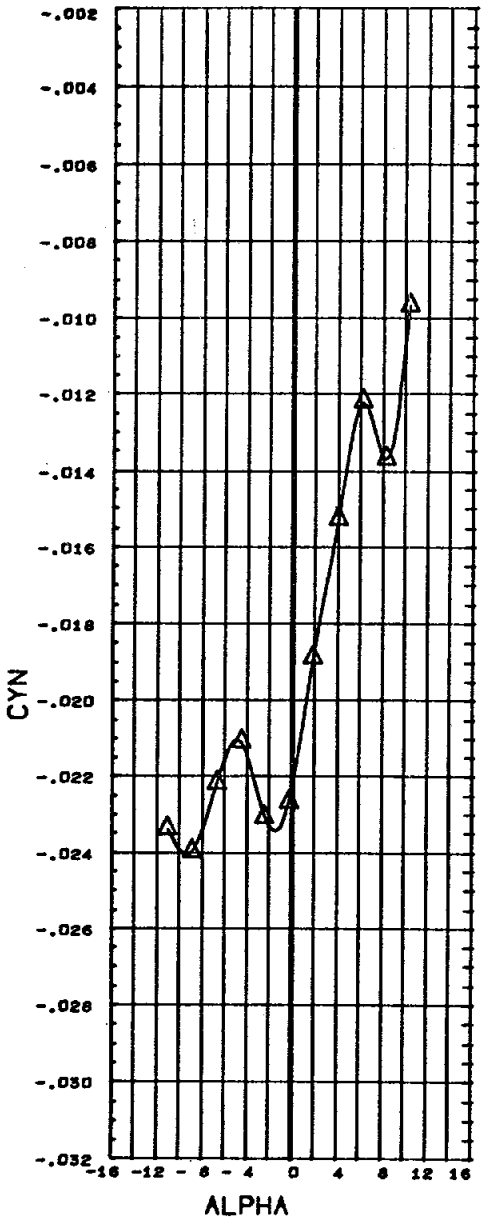
PHI	ORBINC	RUDDER	AILRON
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80.000	0.000	0.000	0.000

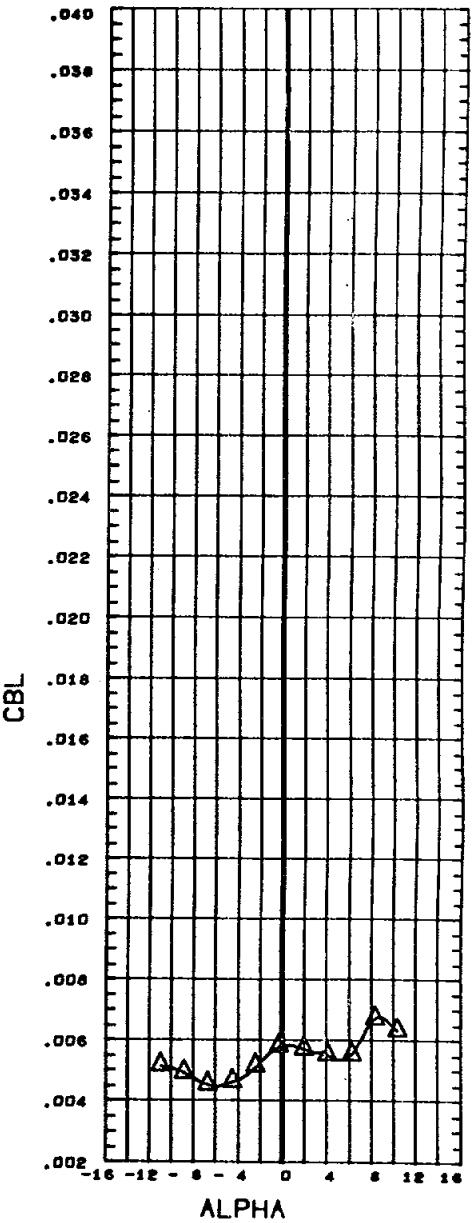
REFERENCE INFORMATION		
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BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF AILERON







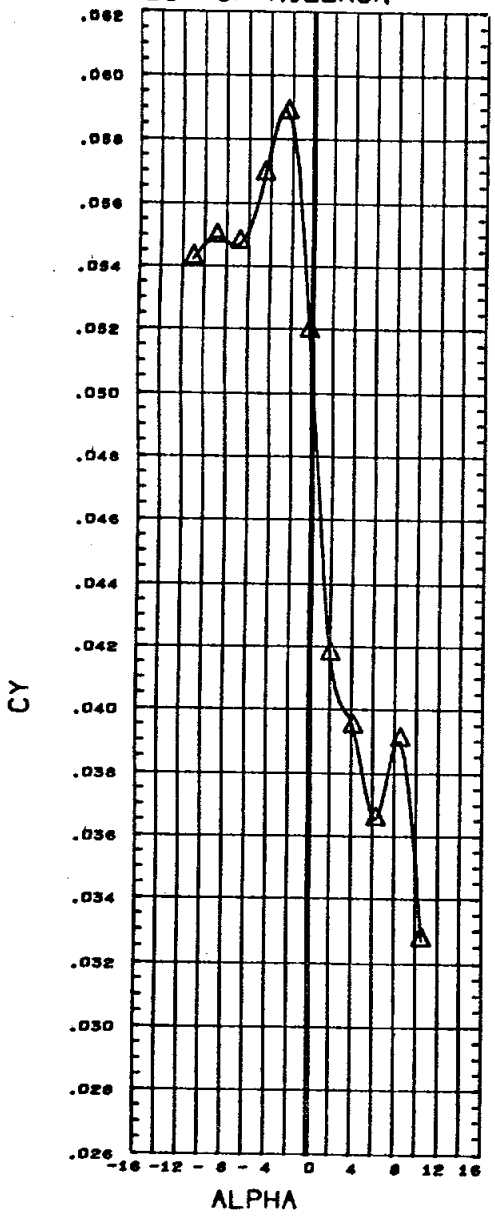
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(A77016)	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

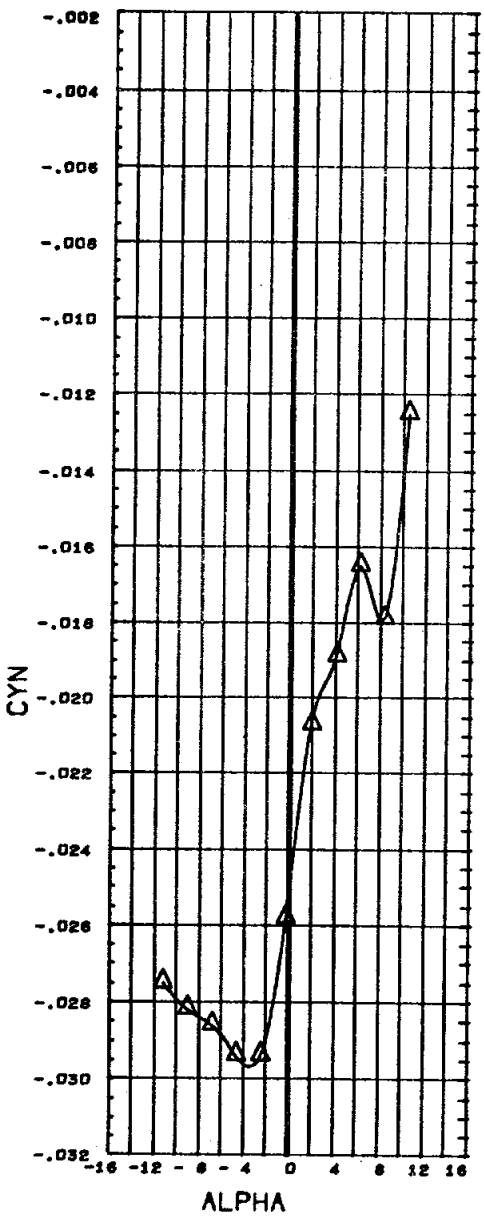
PHI	ORBINC	RUDDER	AILRON
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60.000	0.000	0.000	0.000

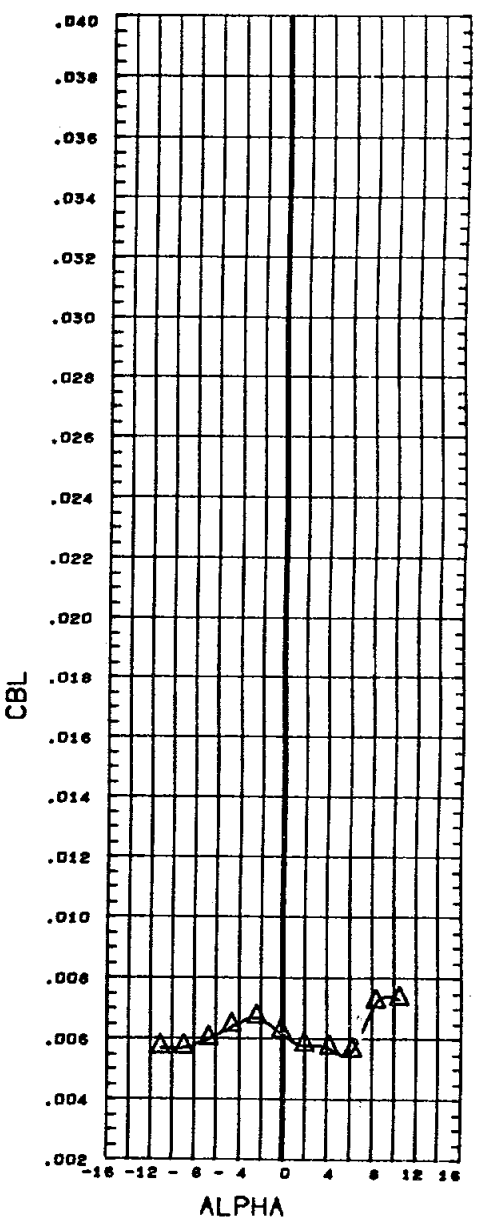
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BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF AILERON







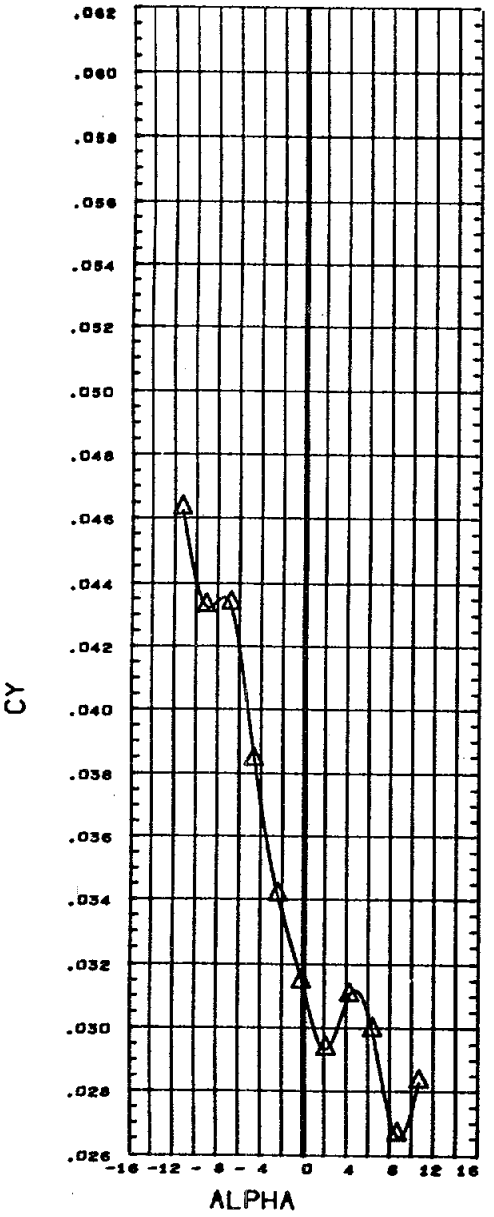
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(A77026)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	△	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

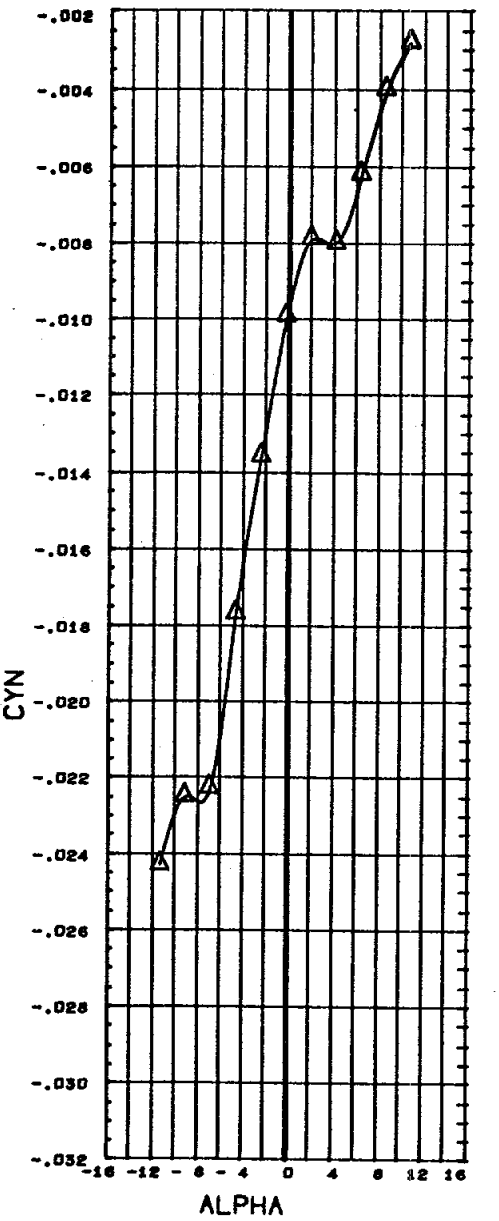
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

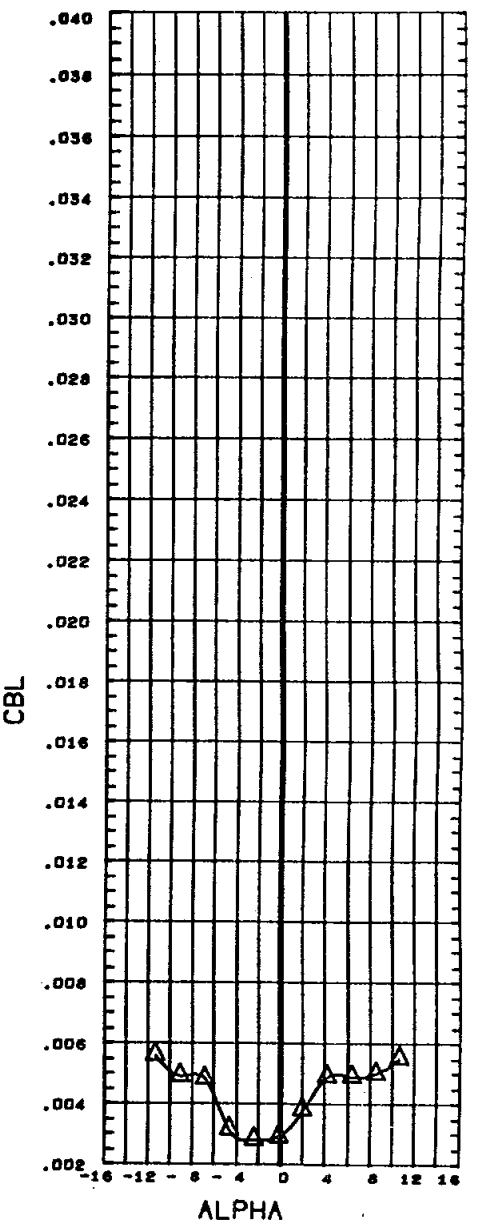
REFERENCE INFORMATION		
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LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF AILERON







DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77026)	Q	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	Δ	M556(IA1) NAR ATP BL LV (O2)(T1)(S1)

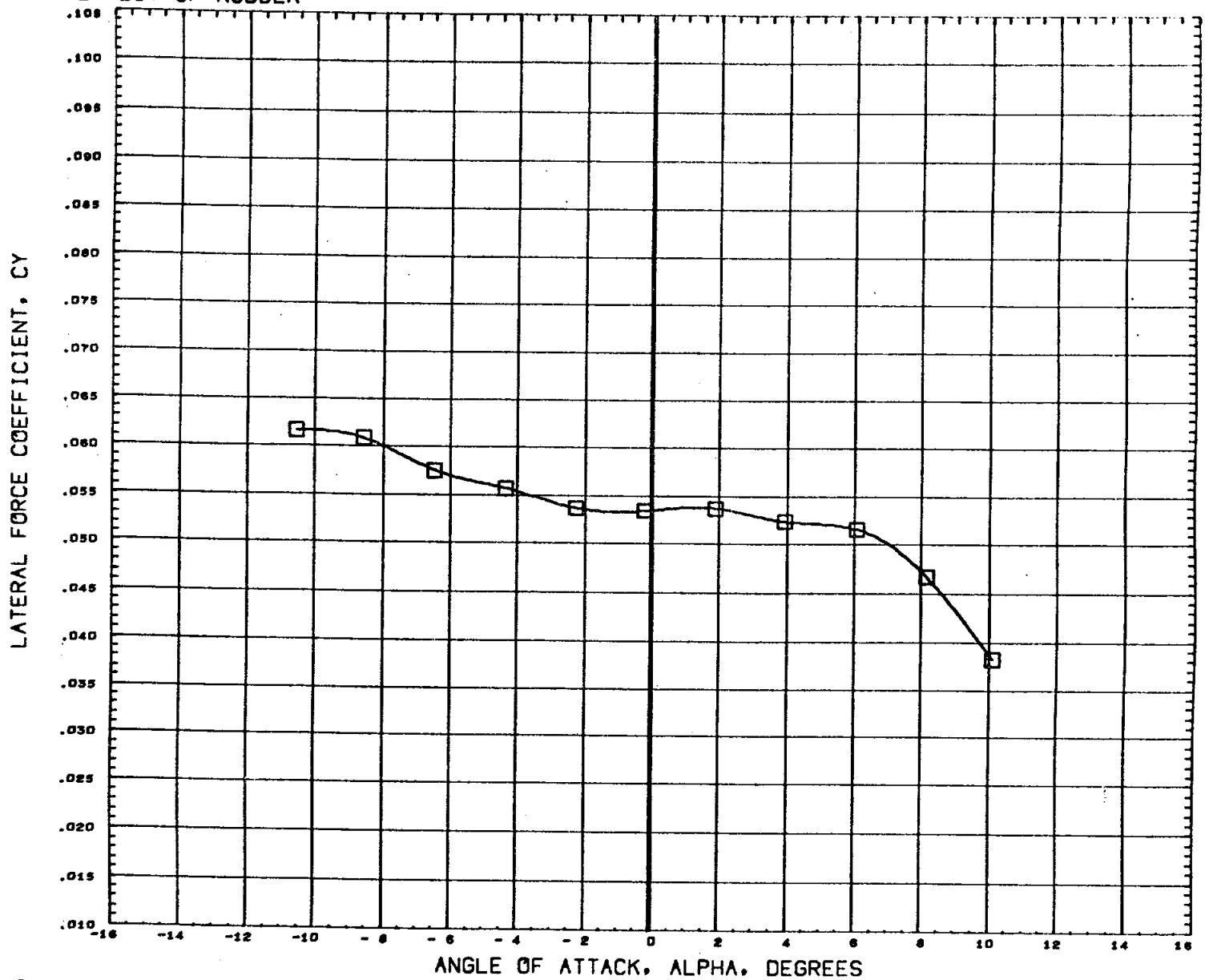
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	0.000	10.000
80.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER



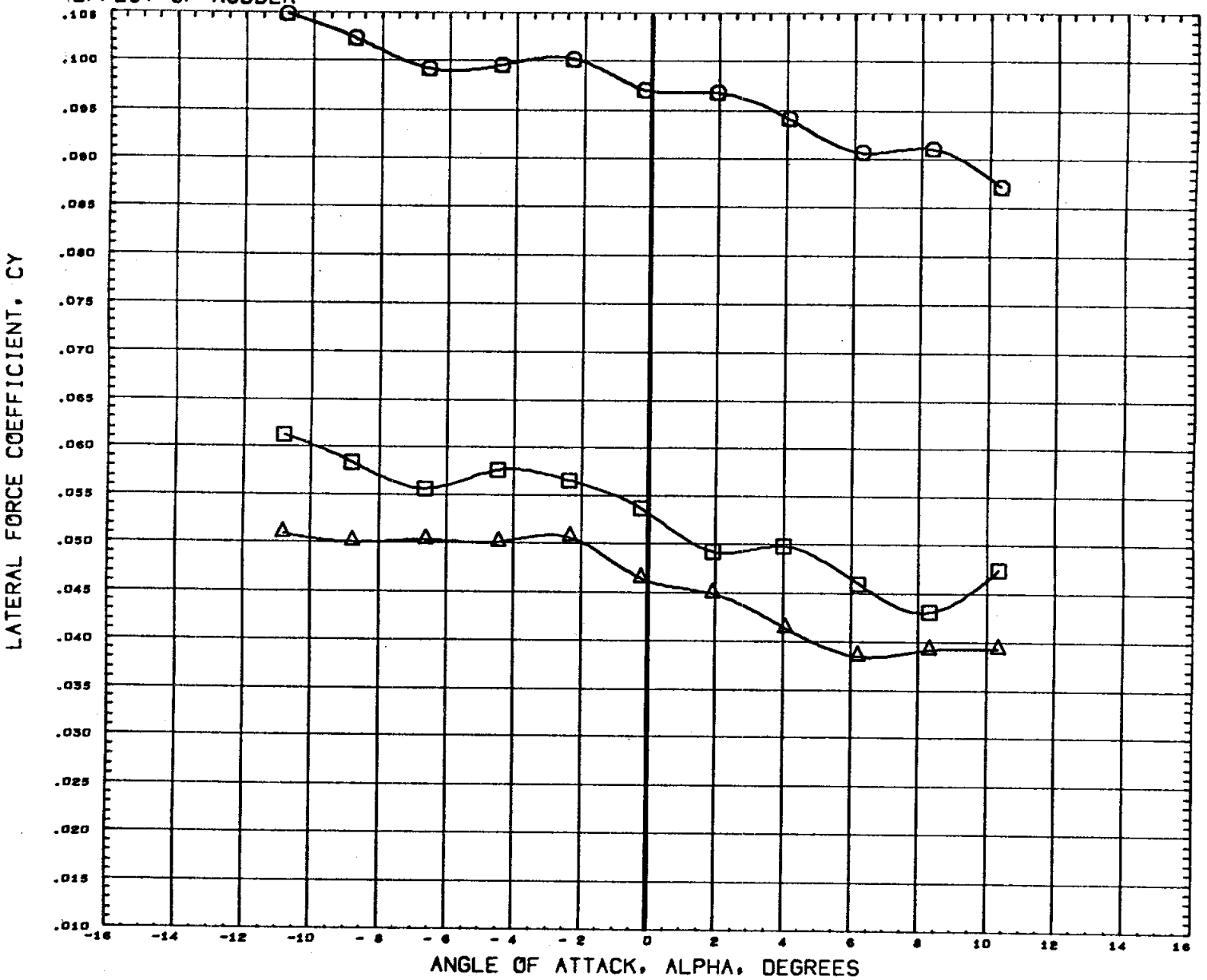
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

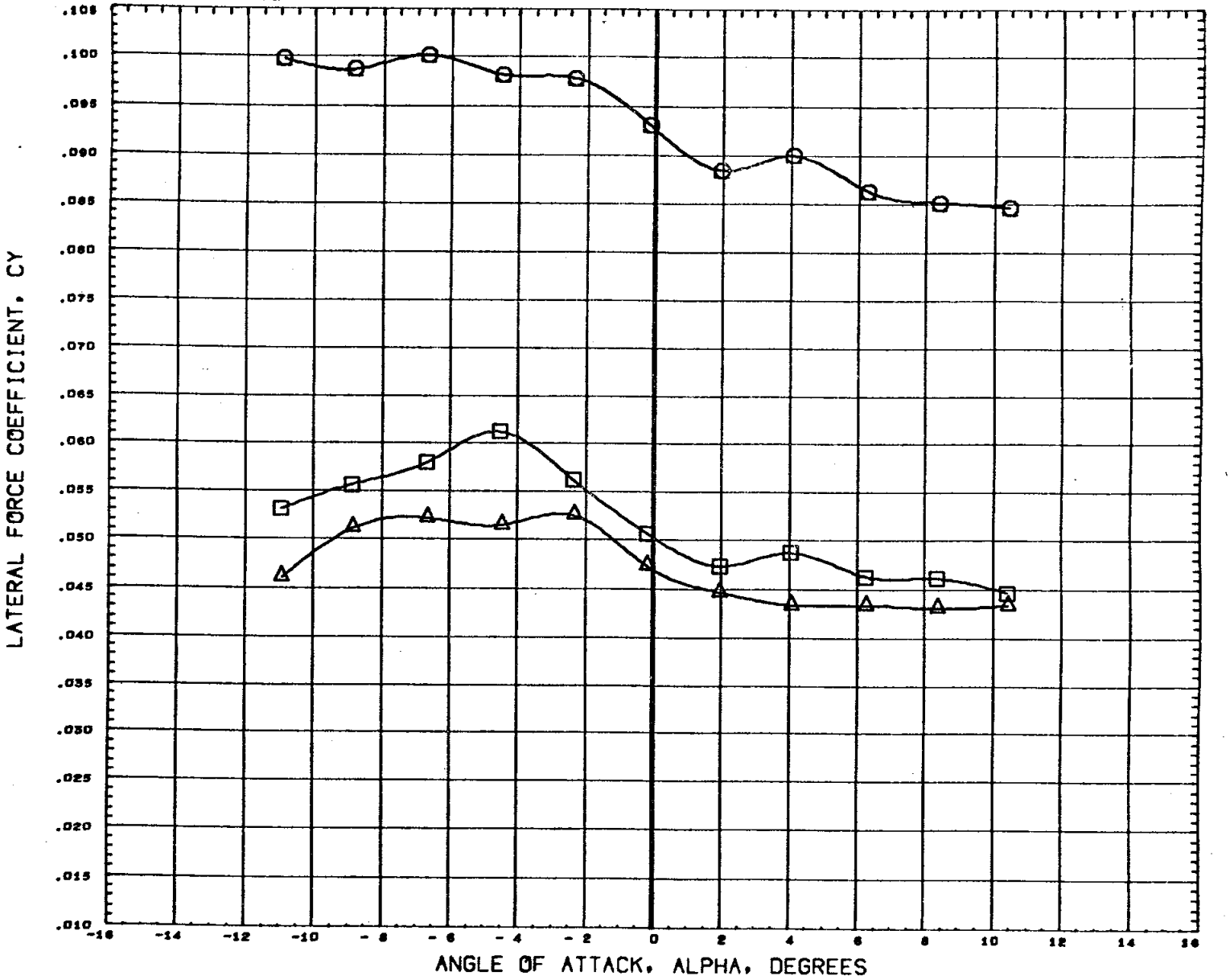
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER



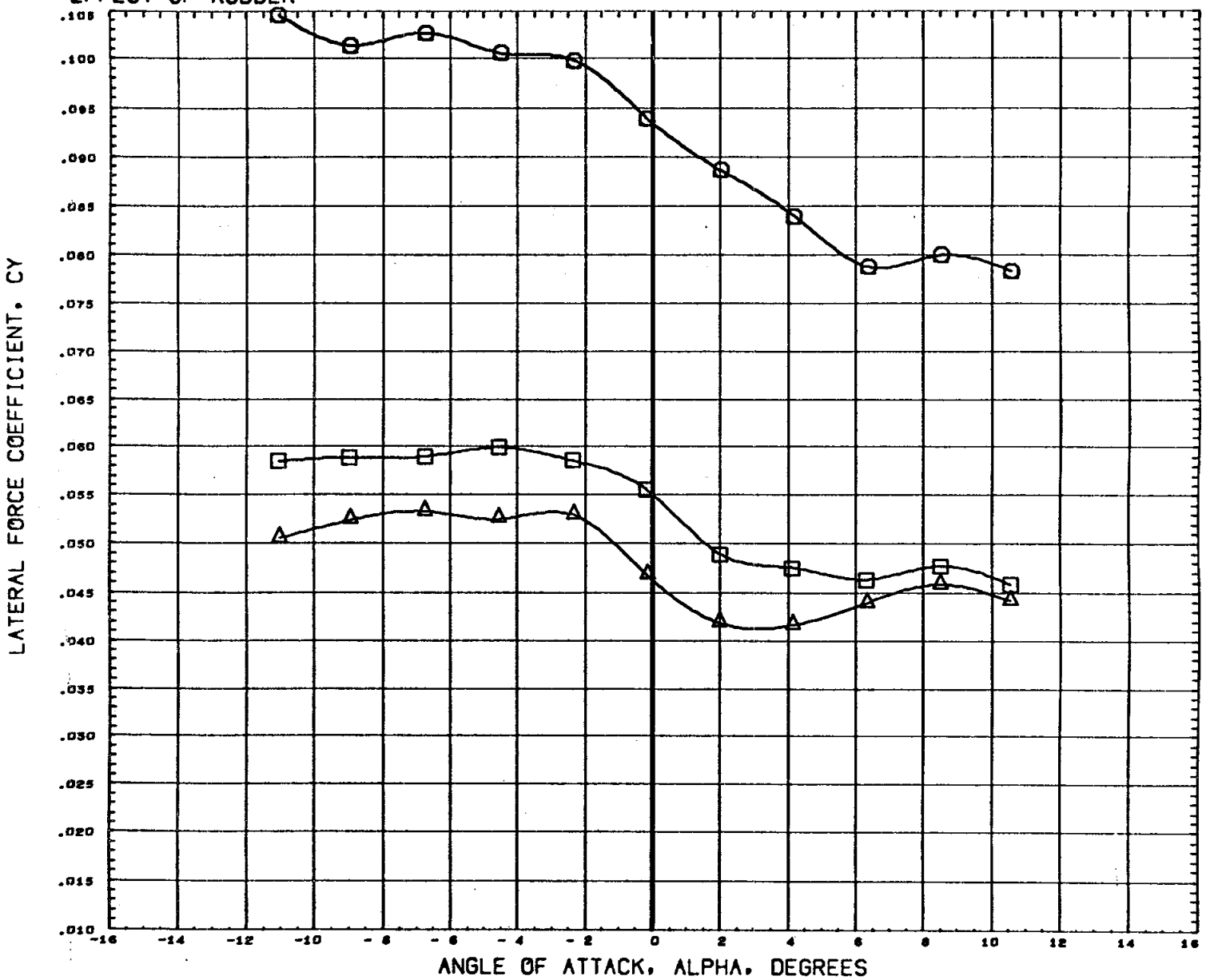
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER

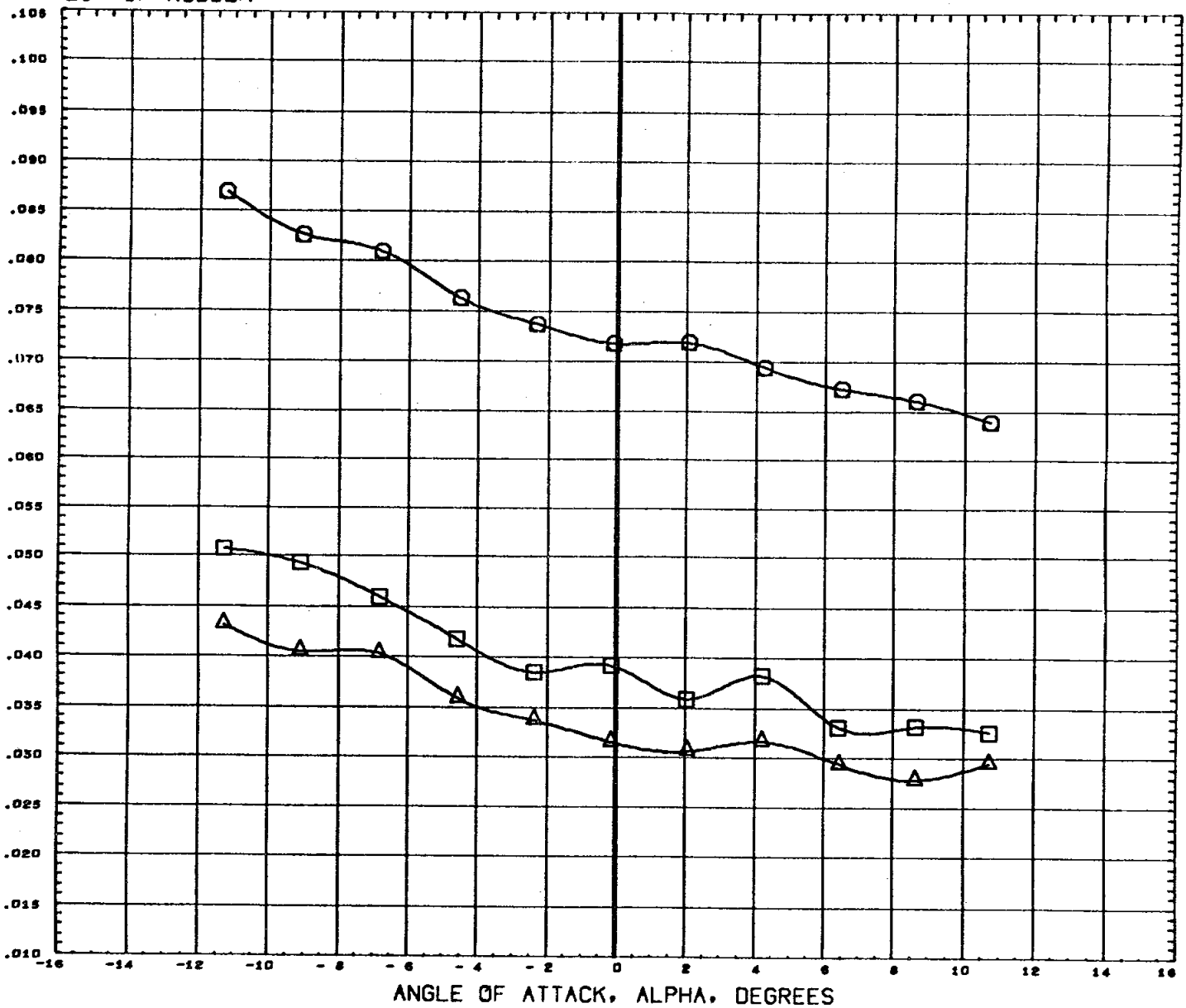


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER



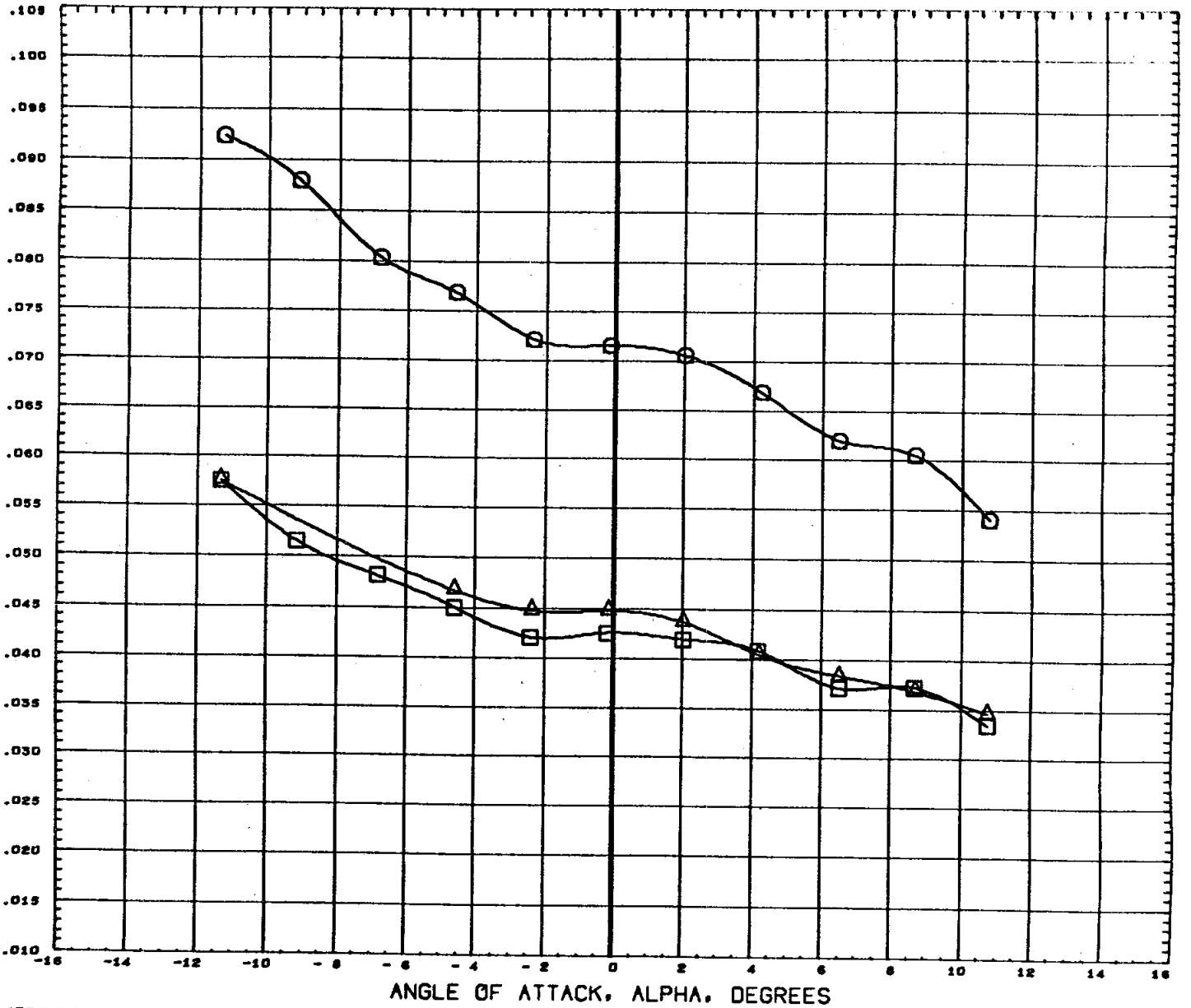
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(A77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

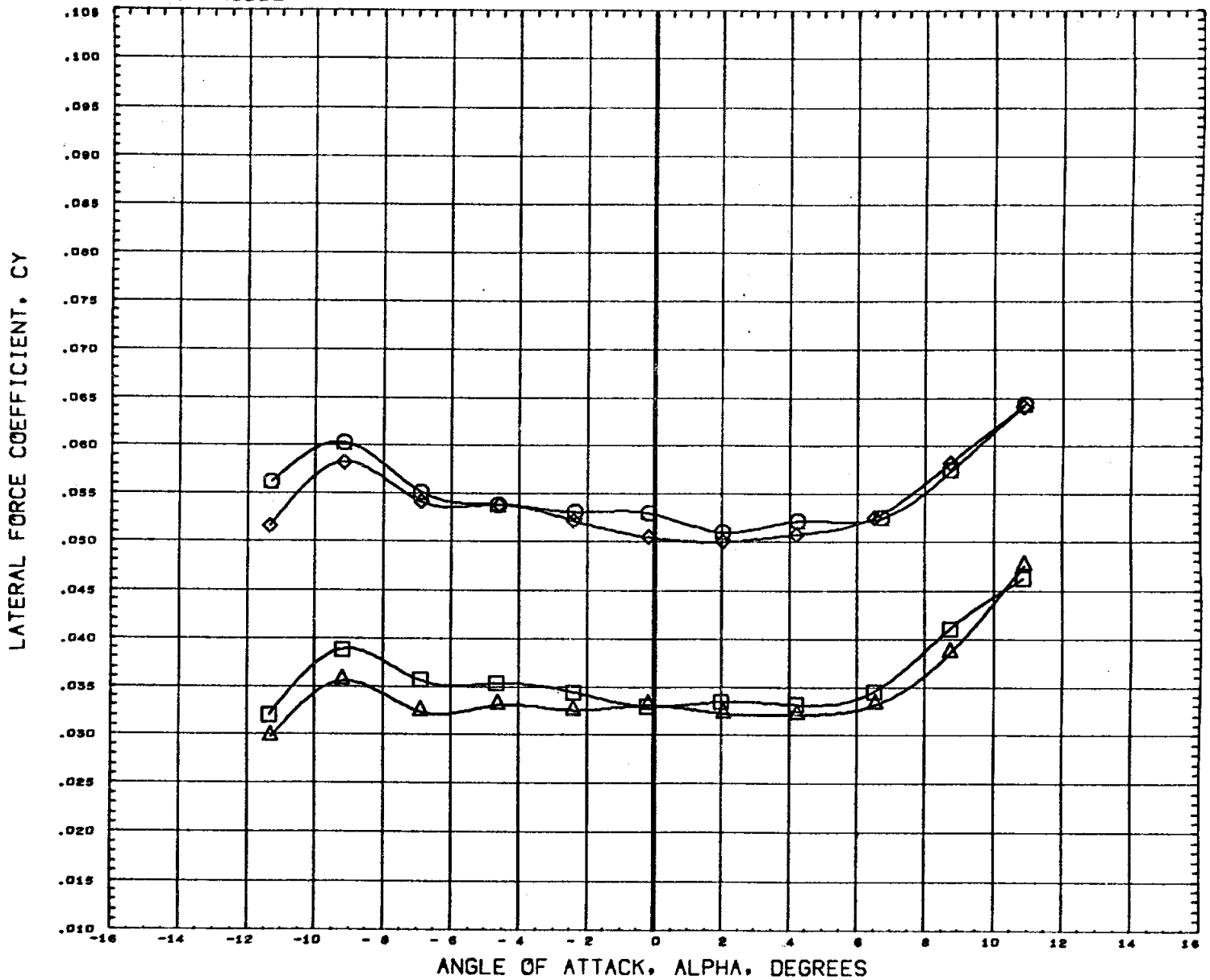
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER

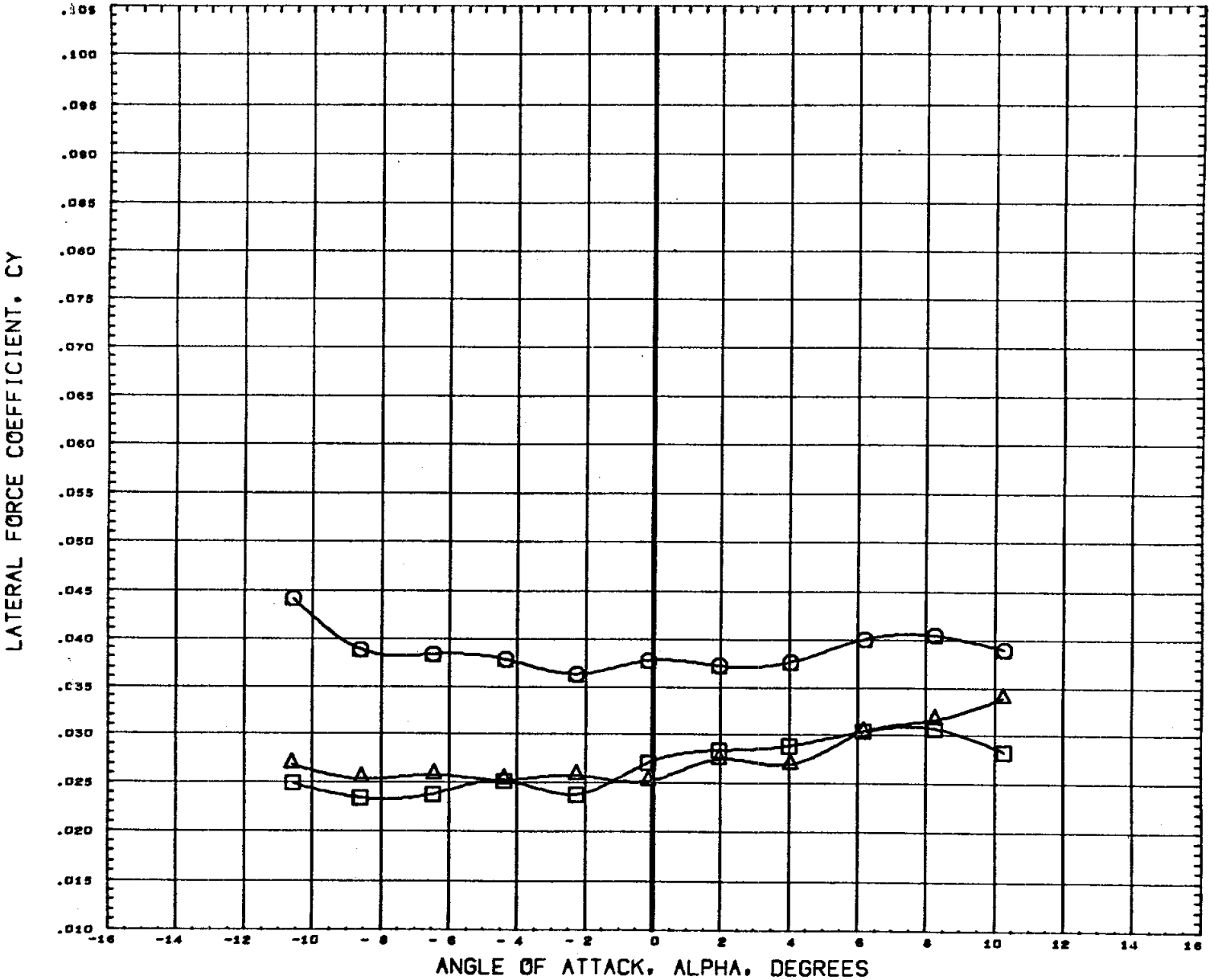


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000
(A77016)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

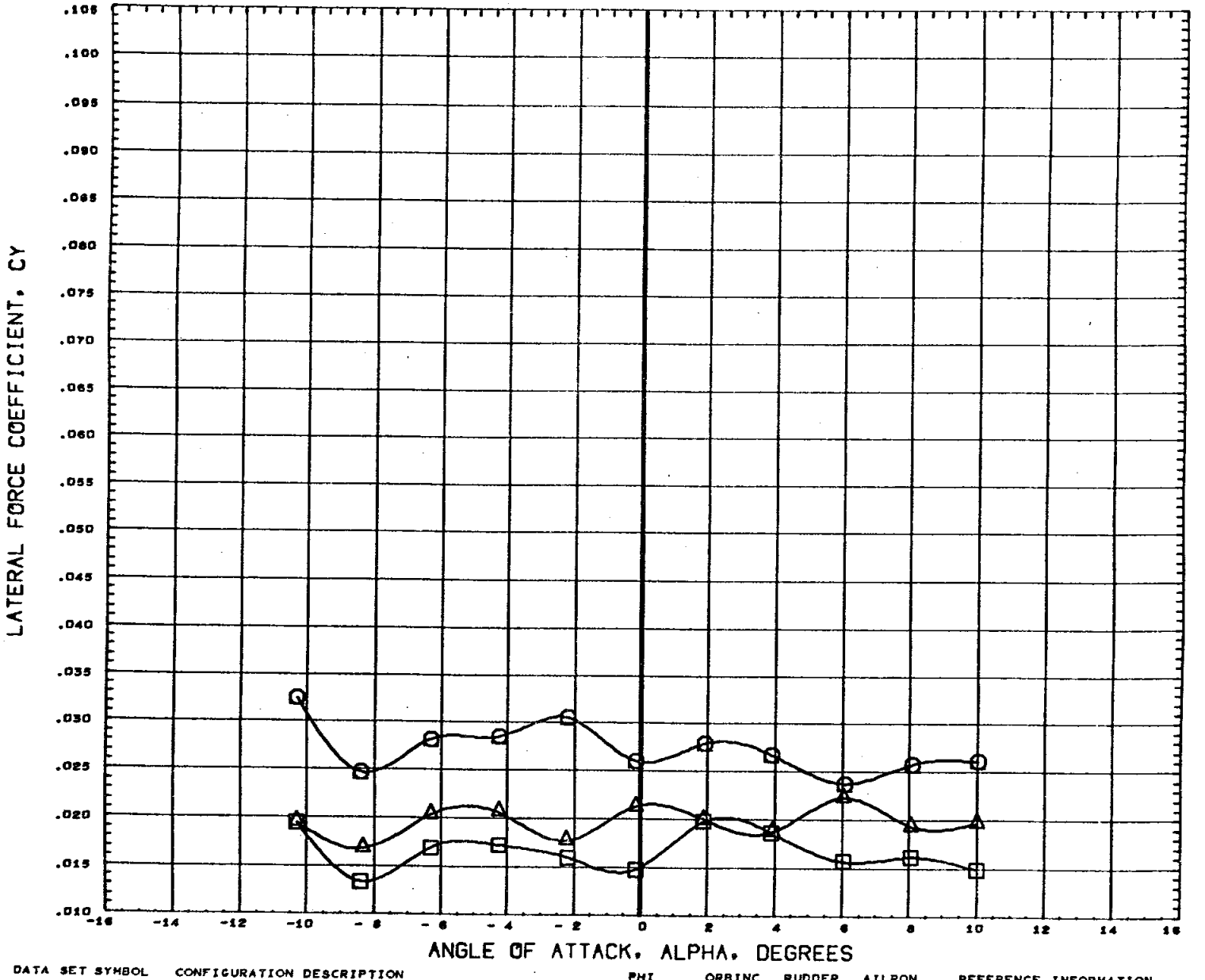


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77018)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER



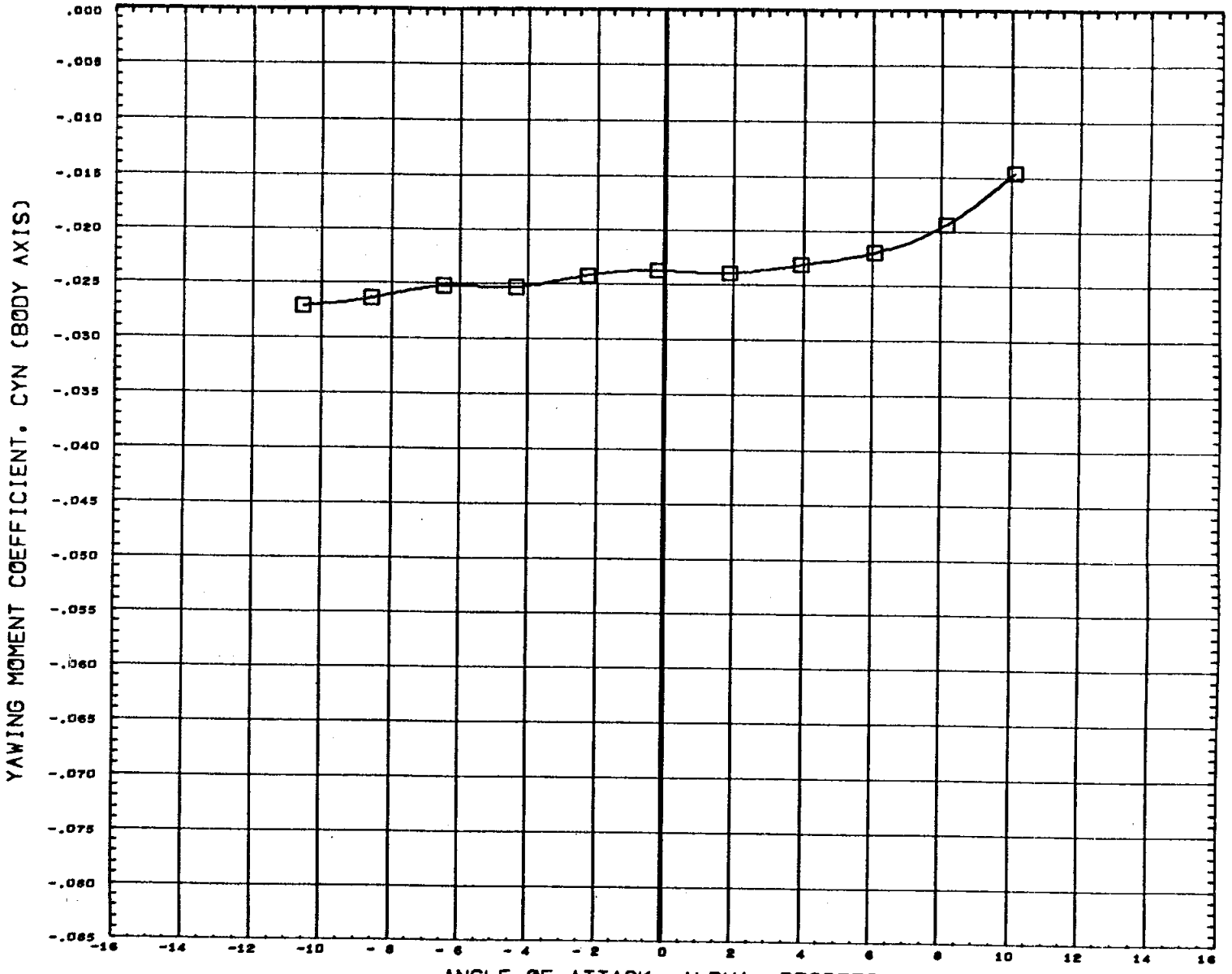
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77026)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

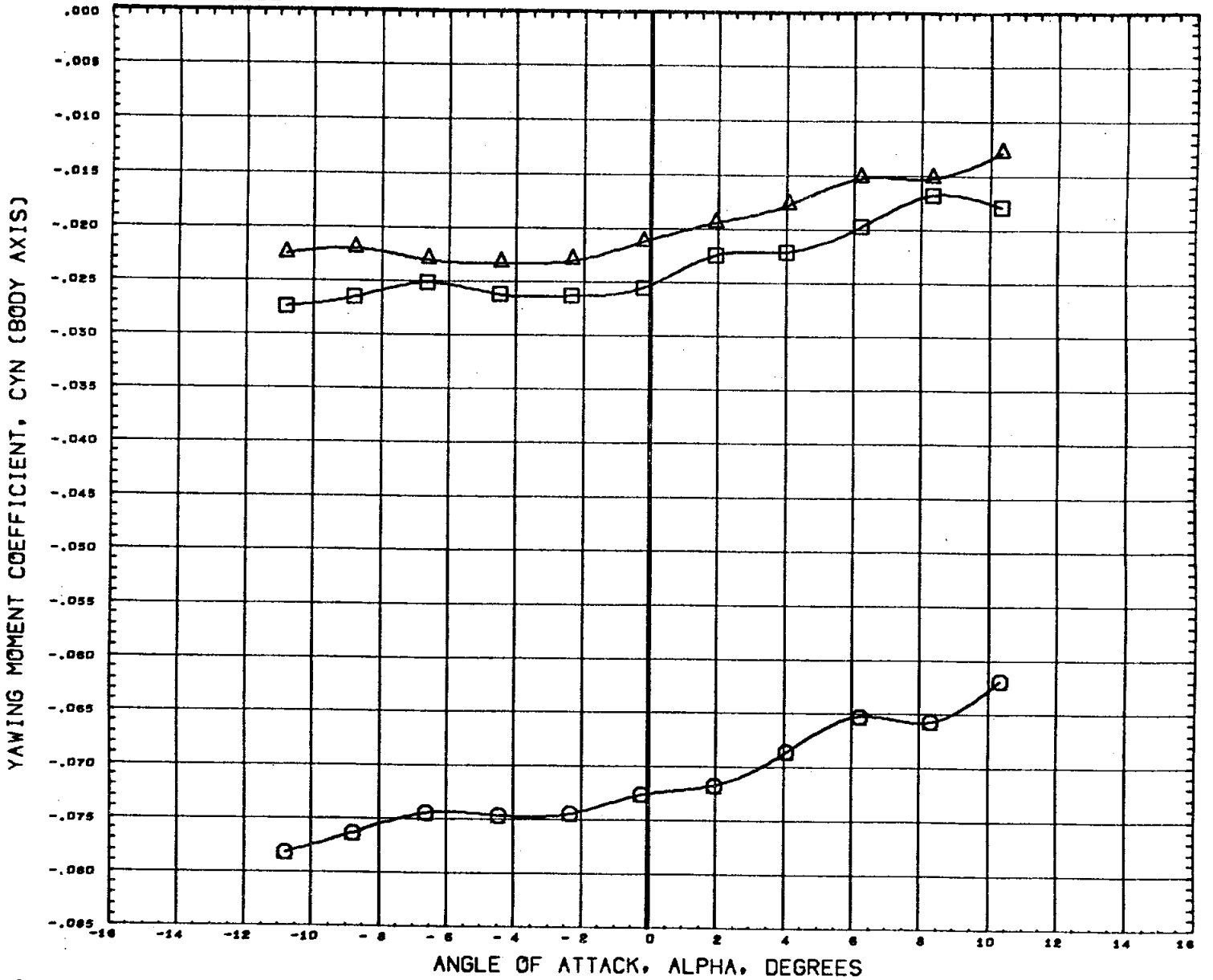
PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER



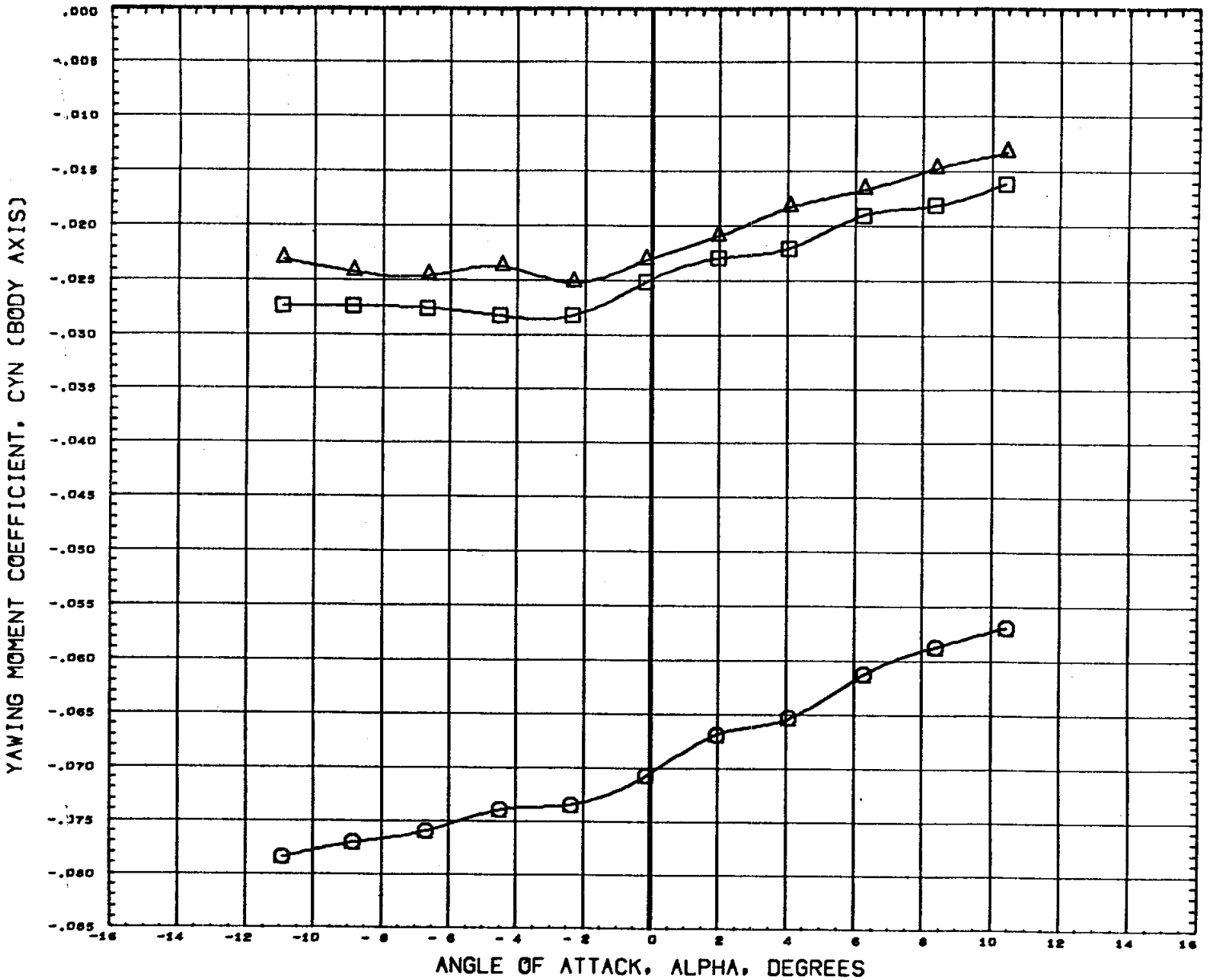
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER



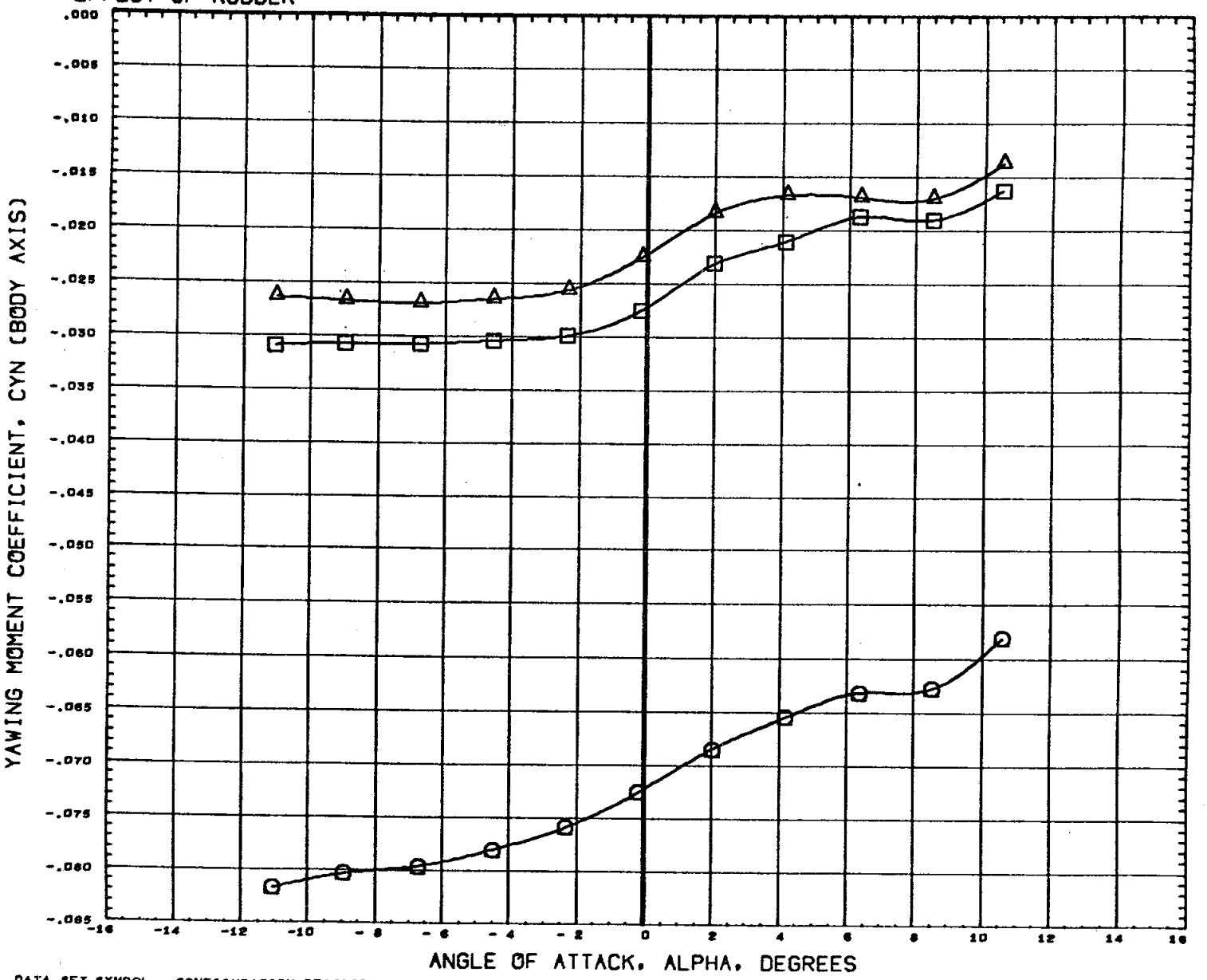
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER



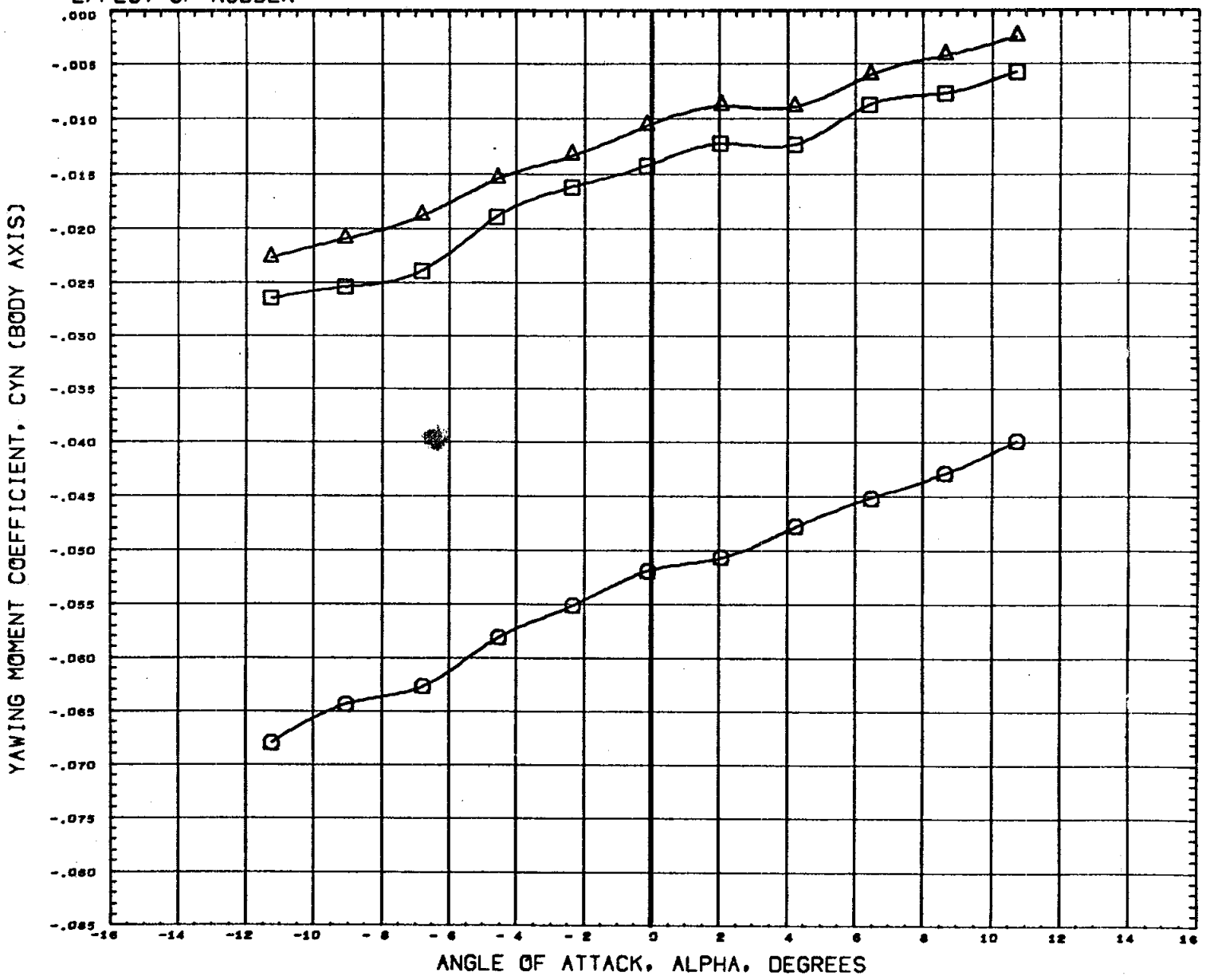
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(A77014)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

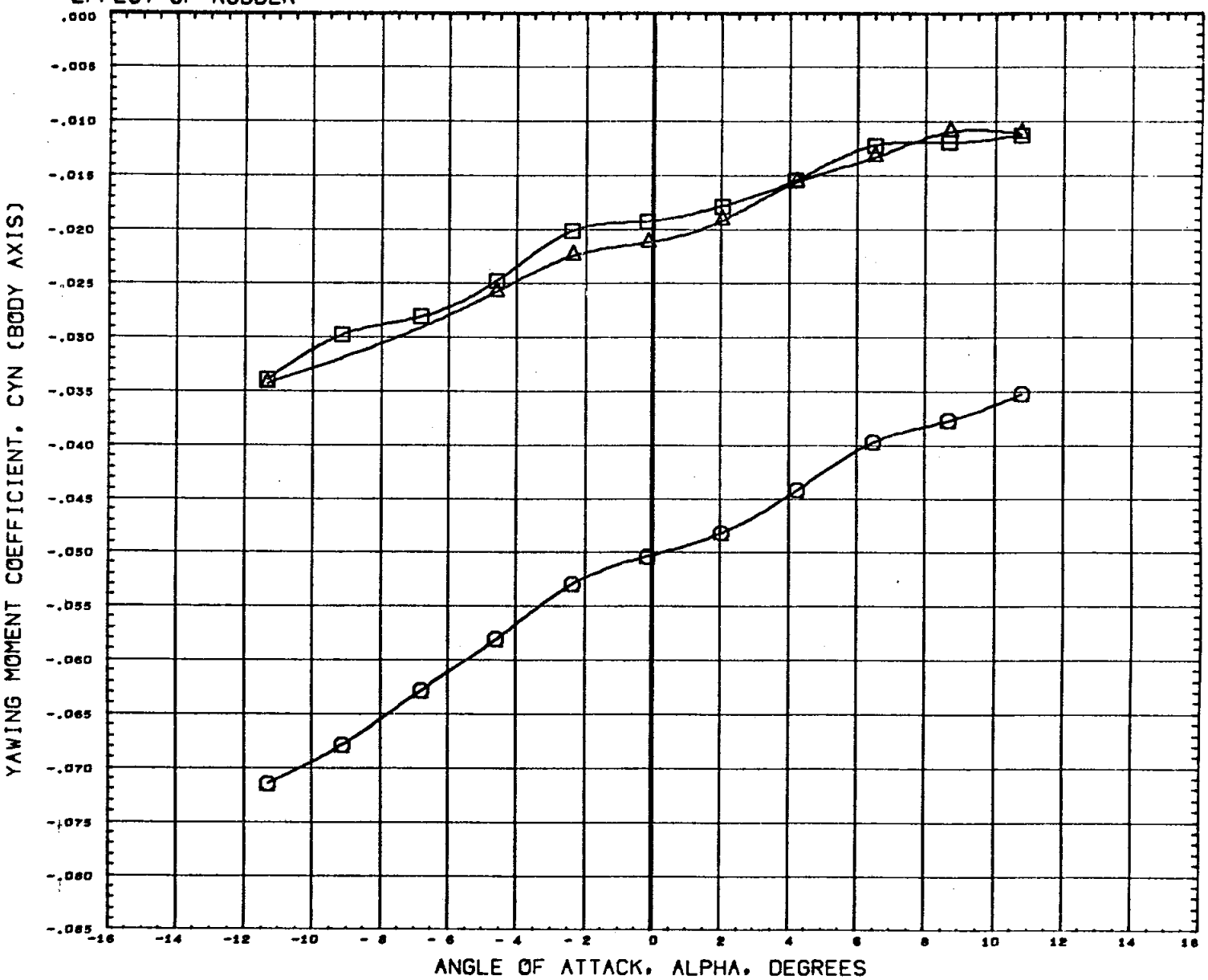


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER

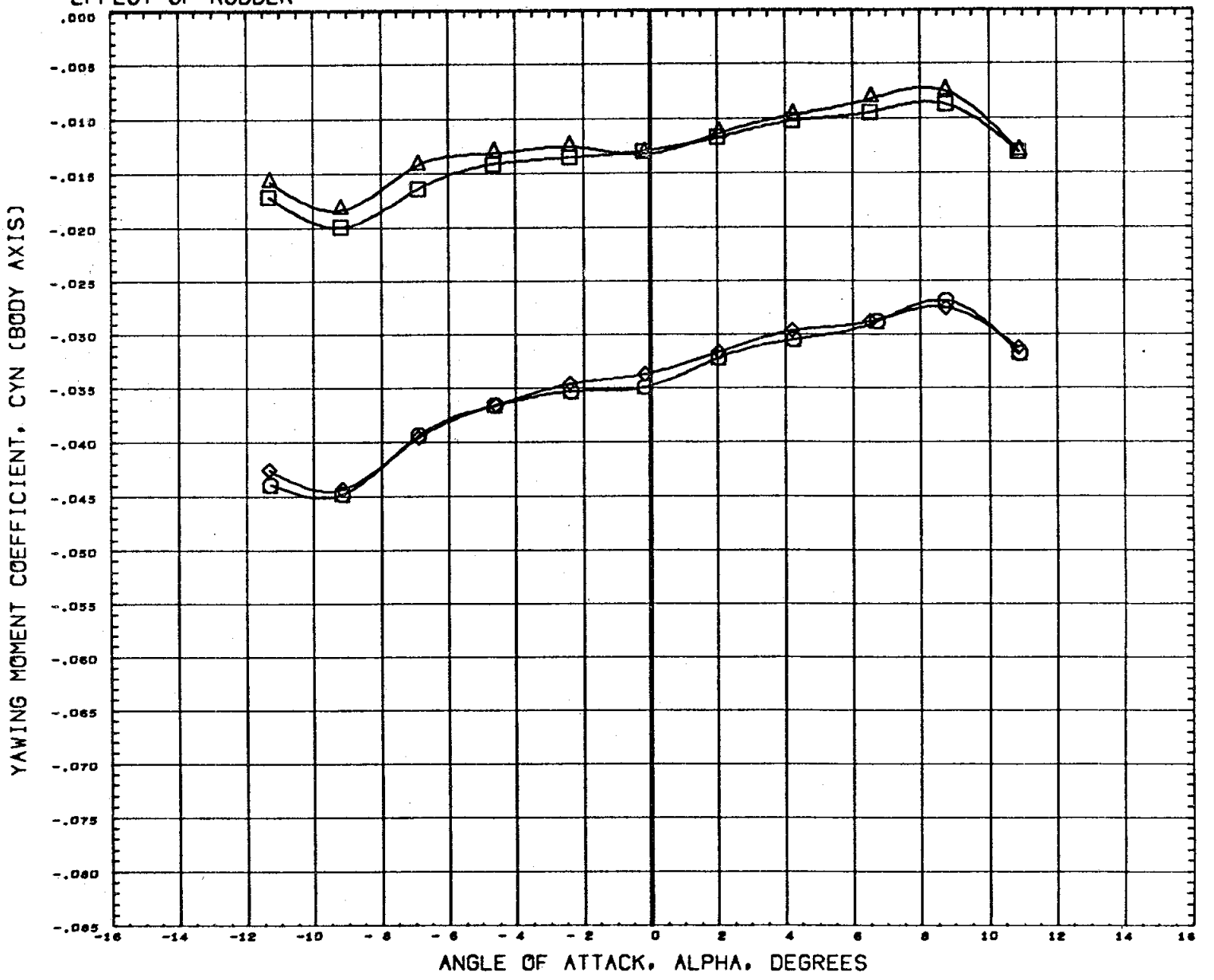


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER

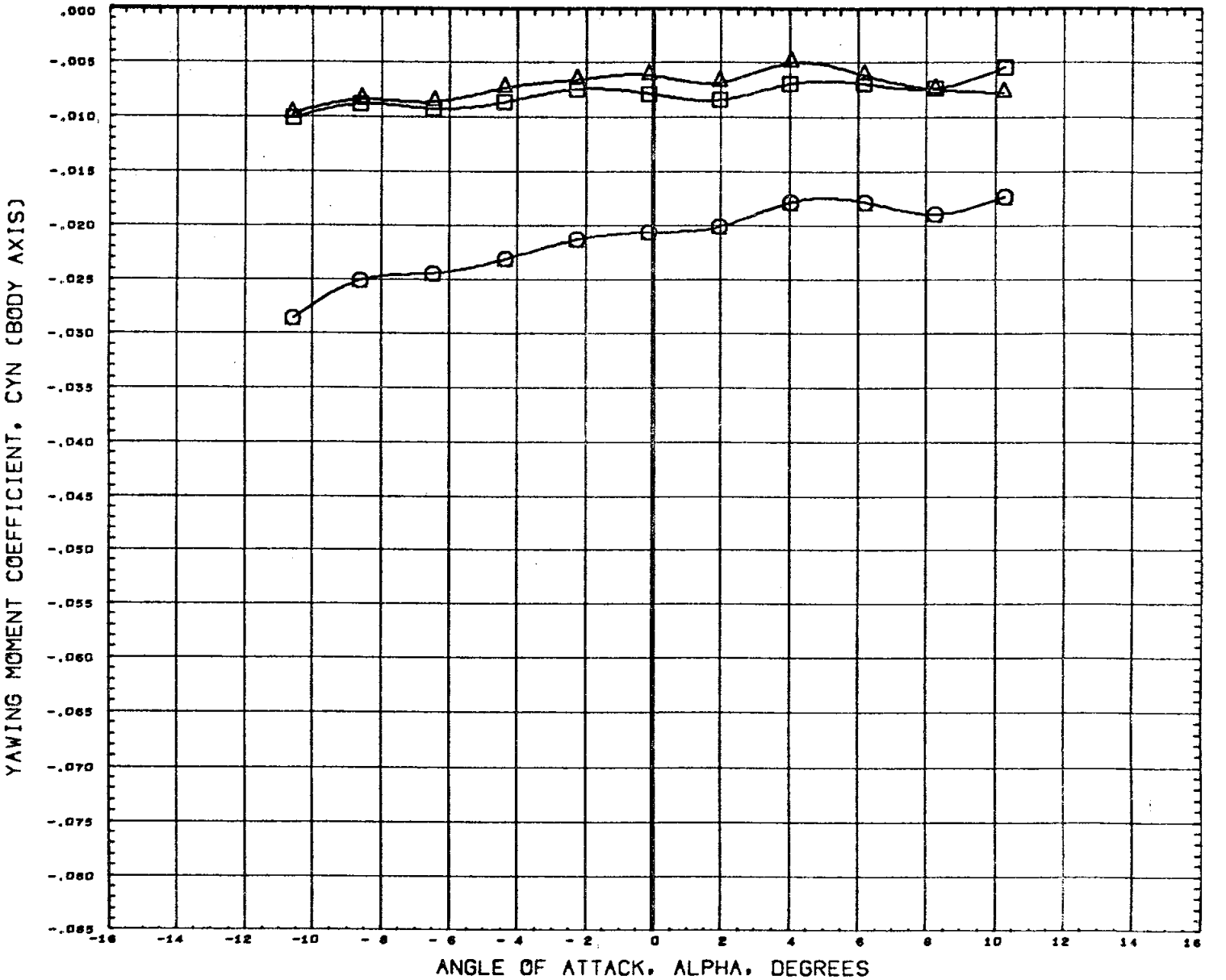


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER

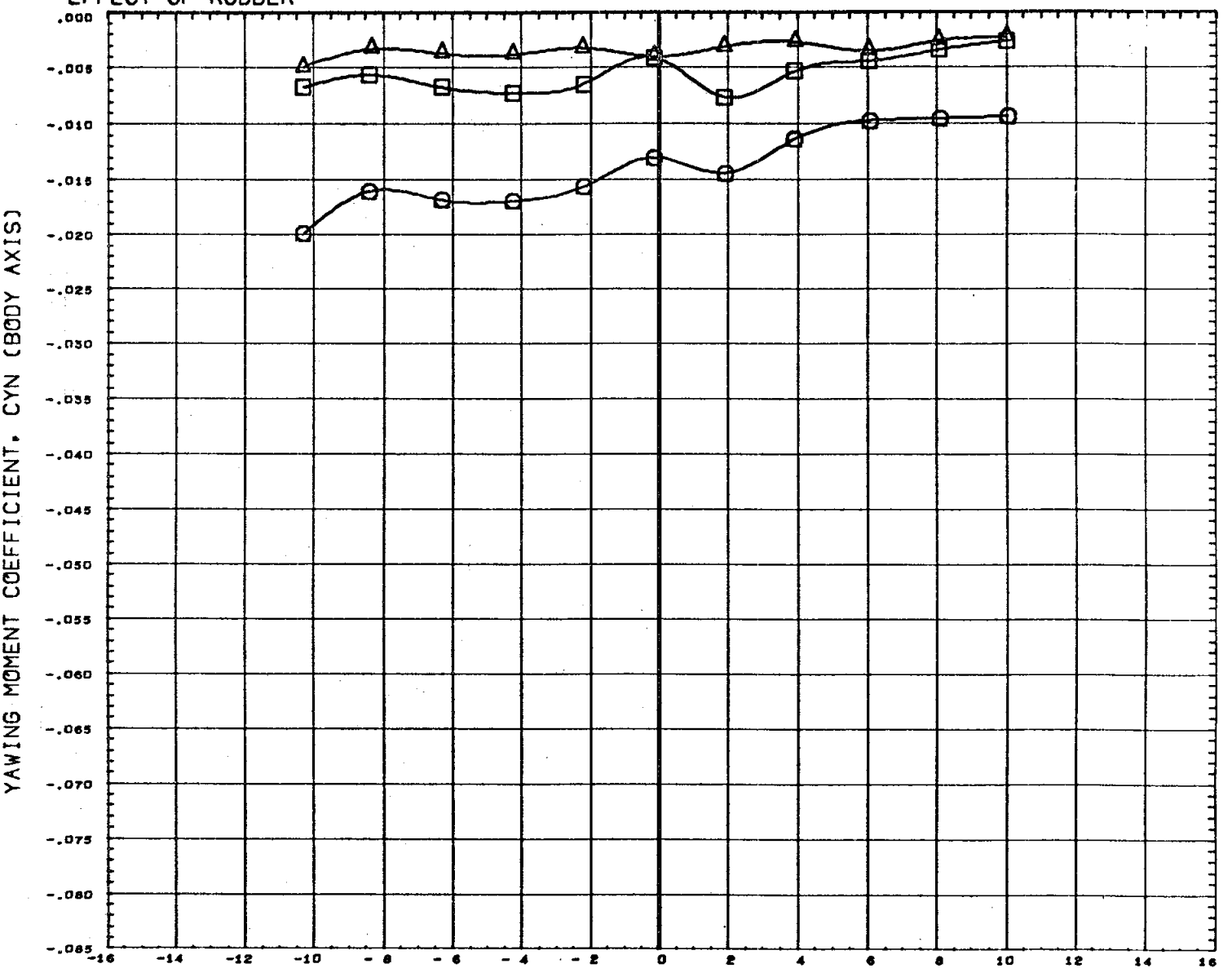


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER

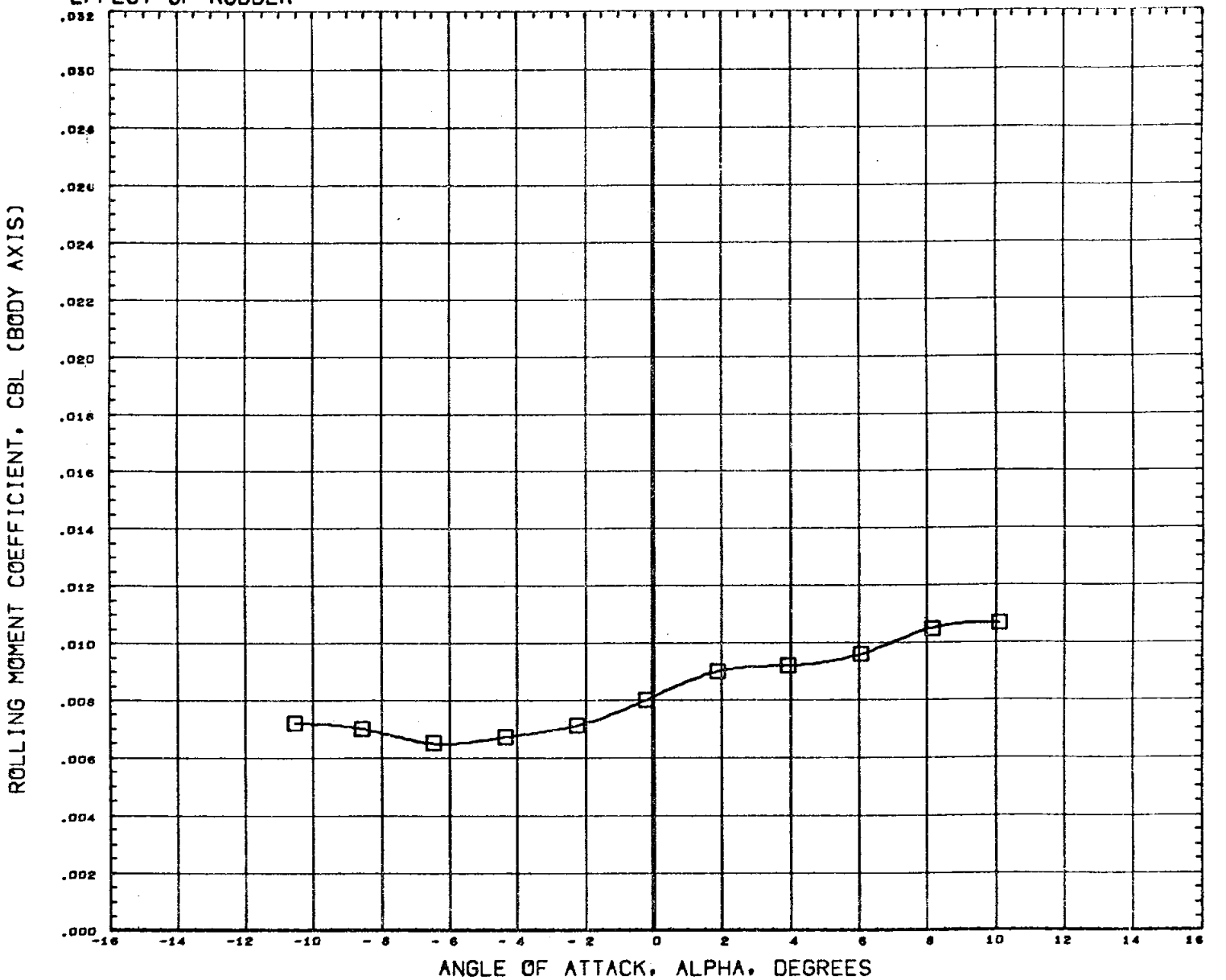


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

EFFECT OF RUDDER

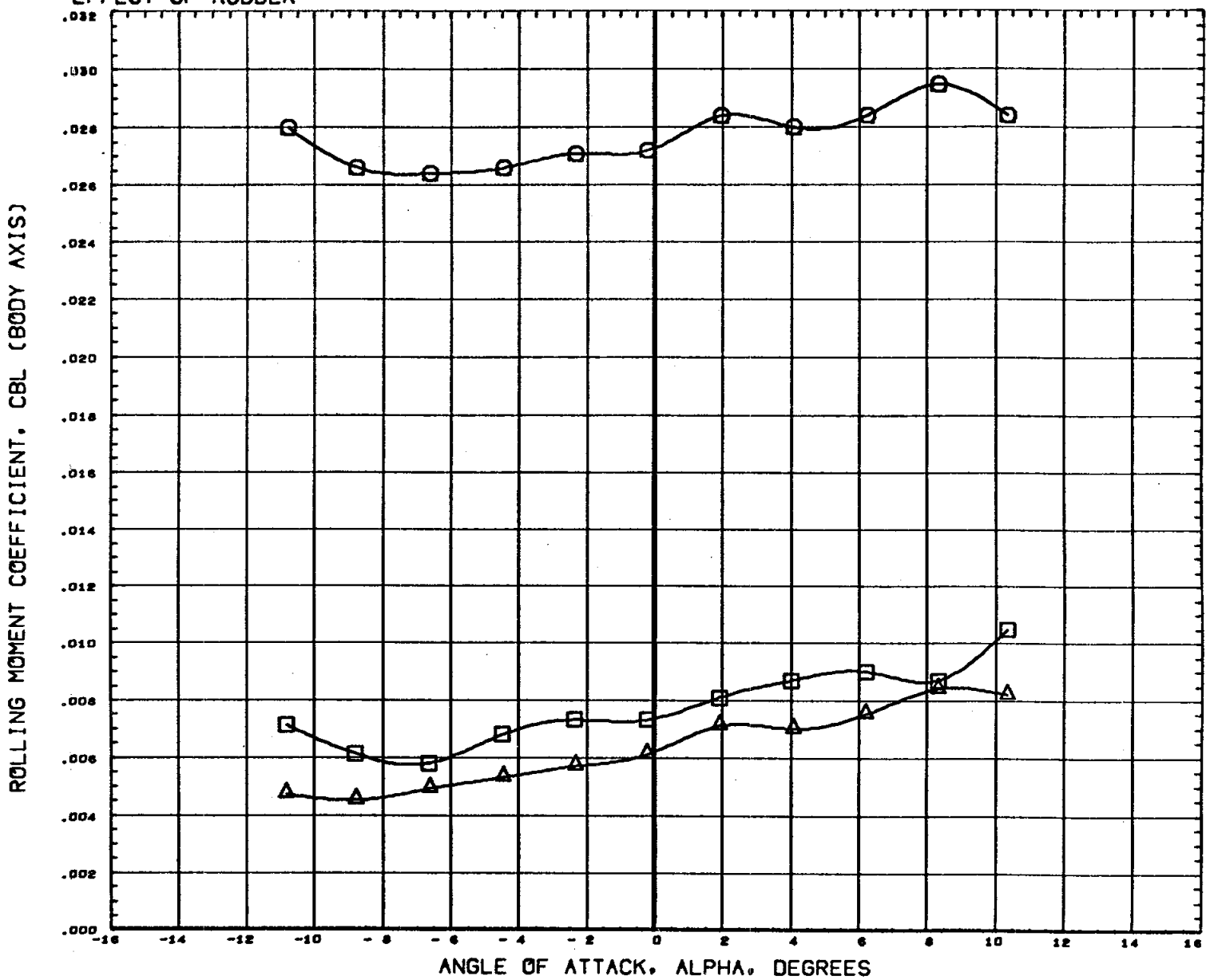


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77026)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	15.000	0.000
(A77014)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .60

EFFECT OF RUDDER

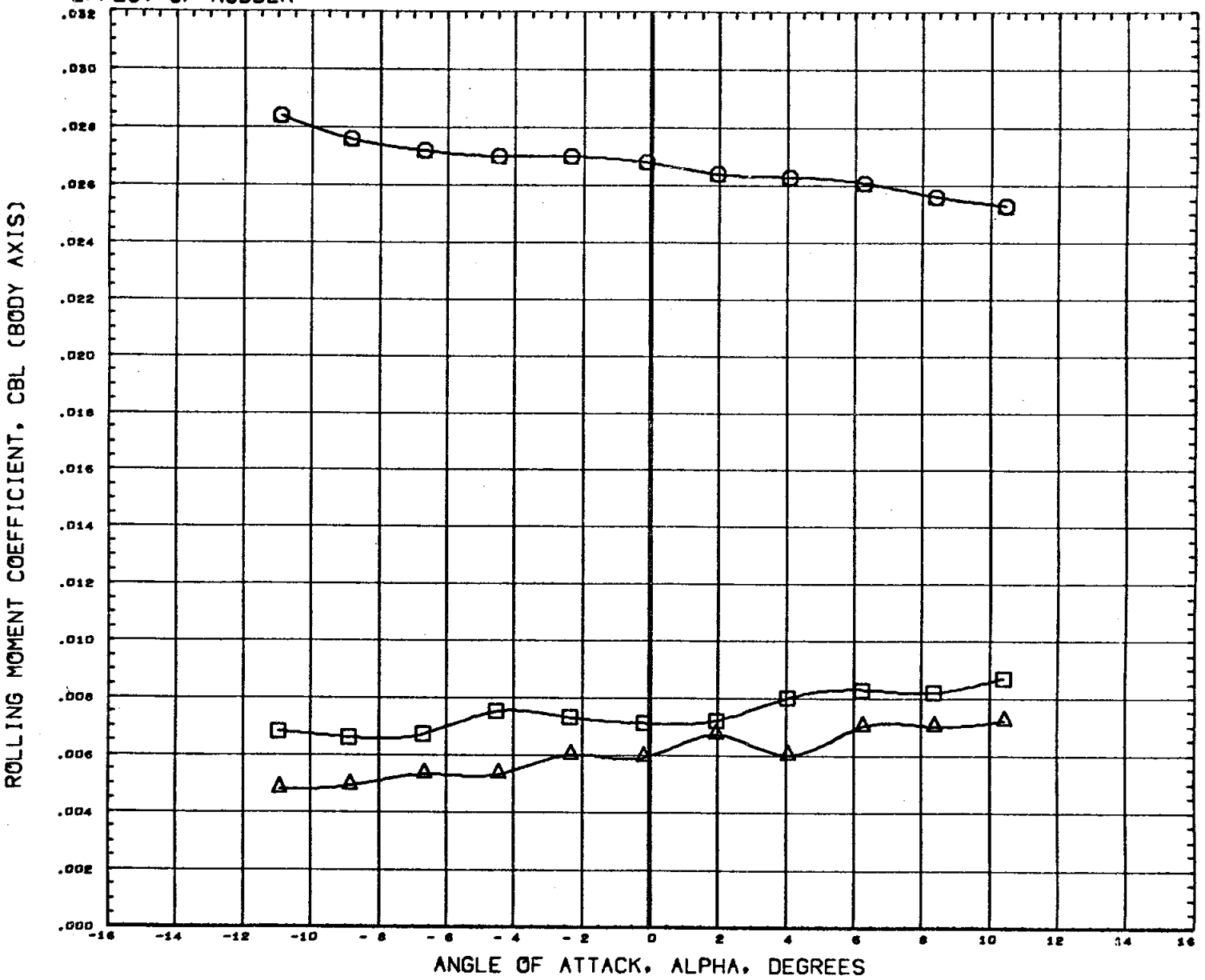


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	60.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .80

EFFECT OF RUDDER



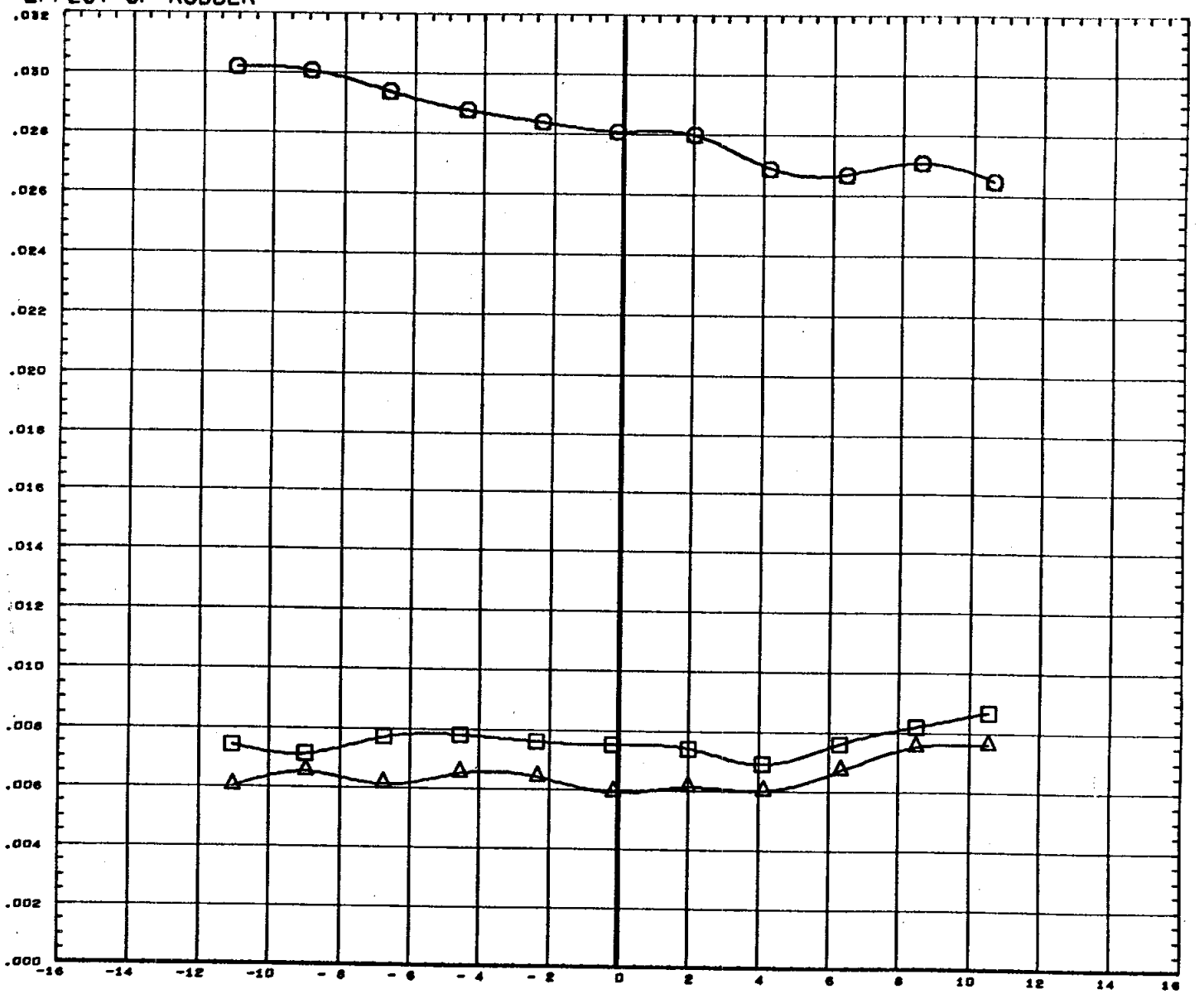
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH .90

EFFECT OF RUDDER



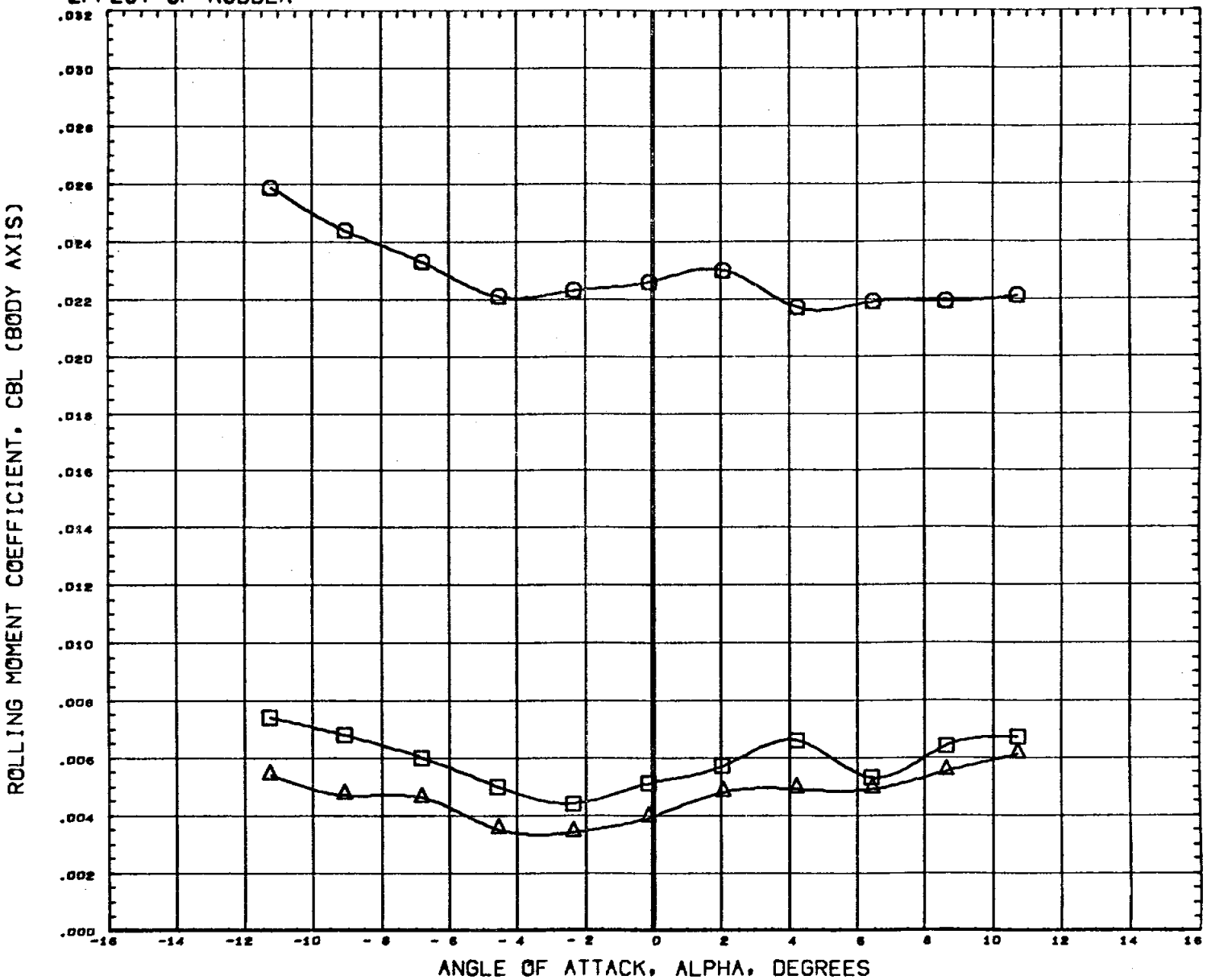
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.6200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.00

EFFECT OF RUDDER

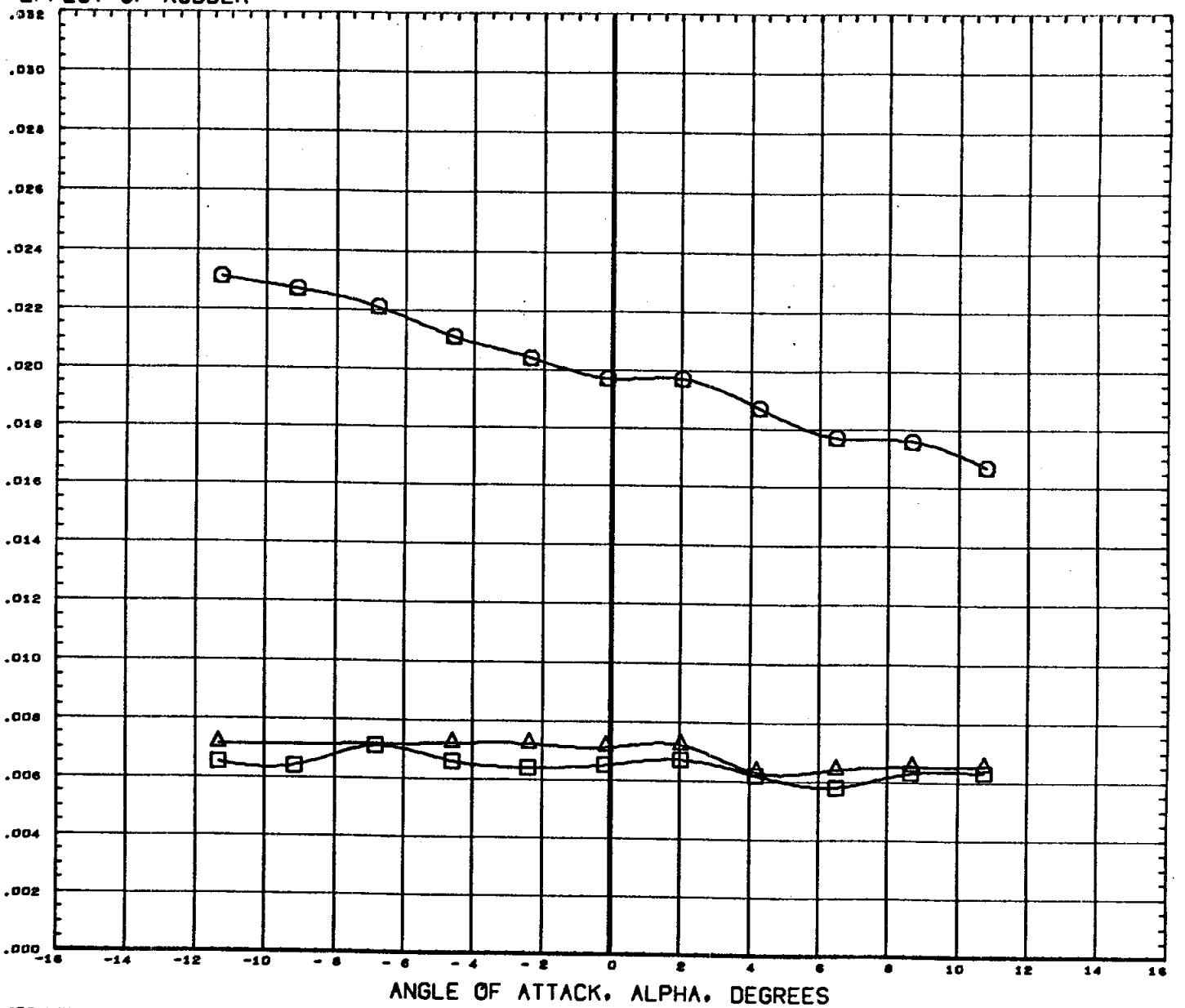


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PHI	ORBINC	RUDDER	AILRON
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	15.000	0.000
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	0.000	0.000	0.000
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	80.000	-1.200	15.000	0.000
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)	80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.20

EFFECT OF RUDDER



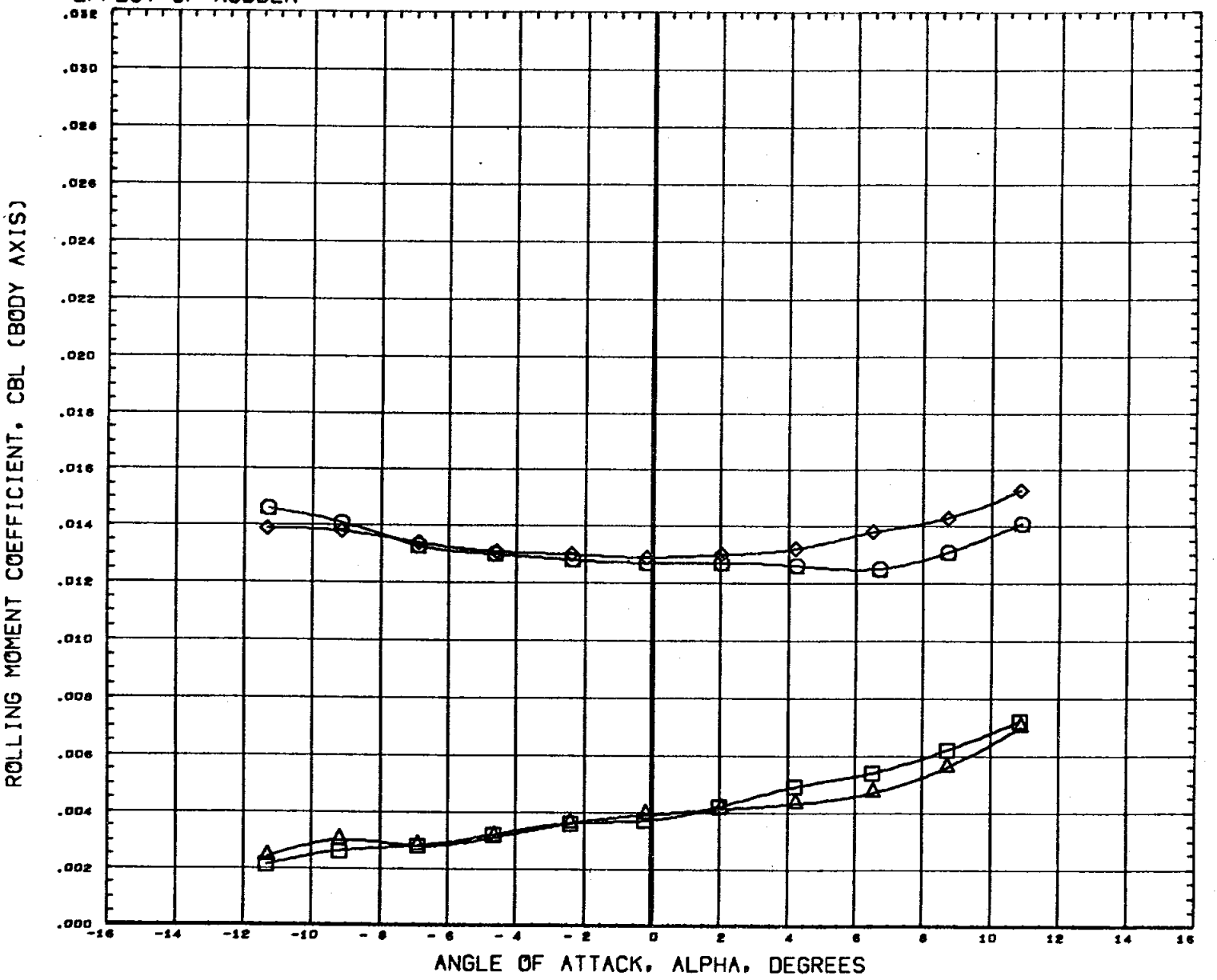
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.46

EFFECT OF RUDDER



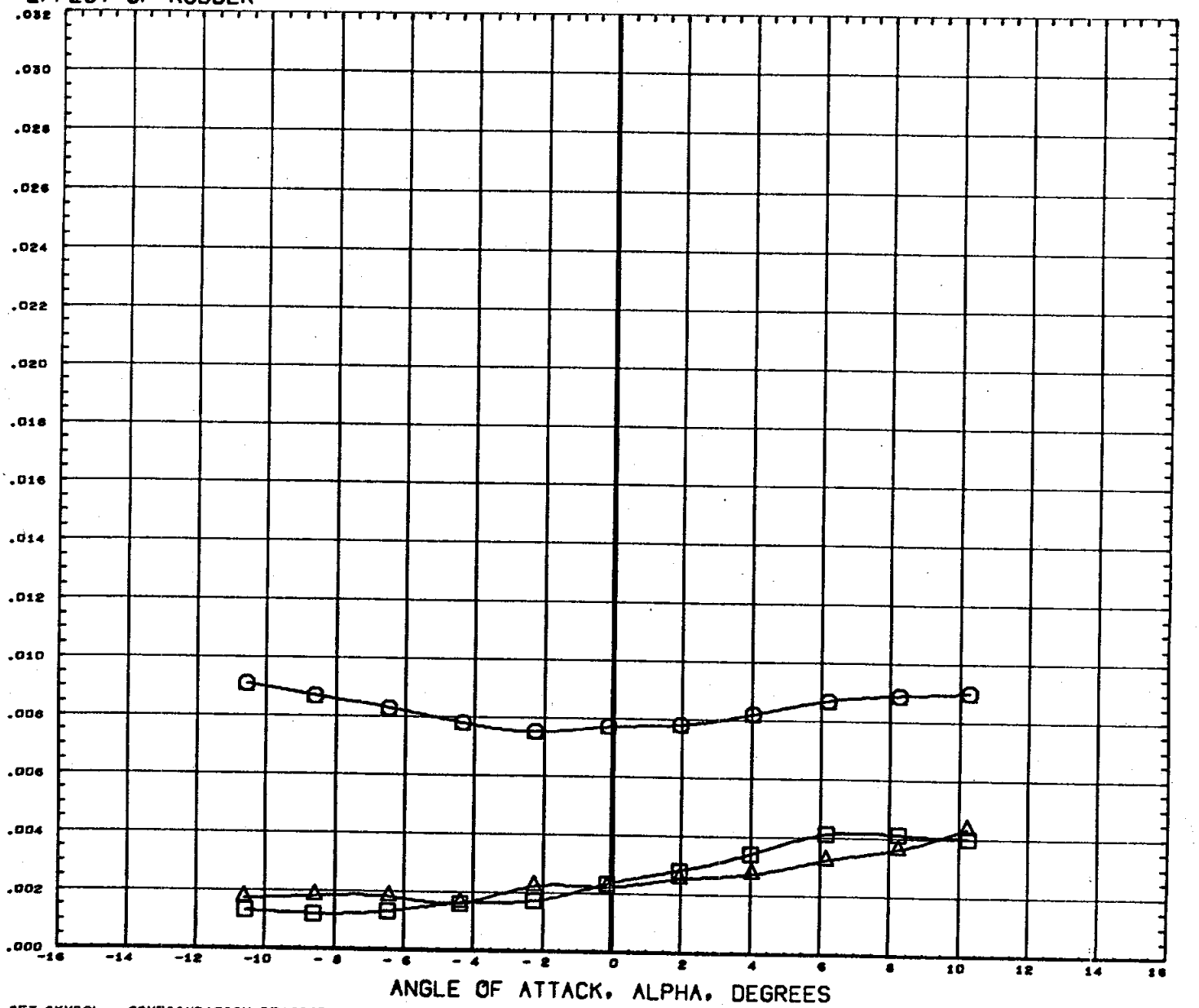
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(A77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
80.000	0.000	15.000	0.000
80.000	0.000	0.000	0.000
80.000	-1.200	15.000	0.000
80.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 1.96

EFFECT OF RUDDER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77028)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77016)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

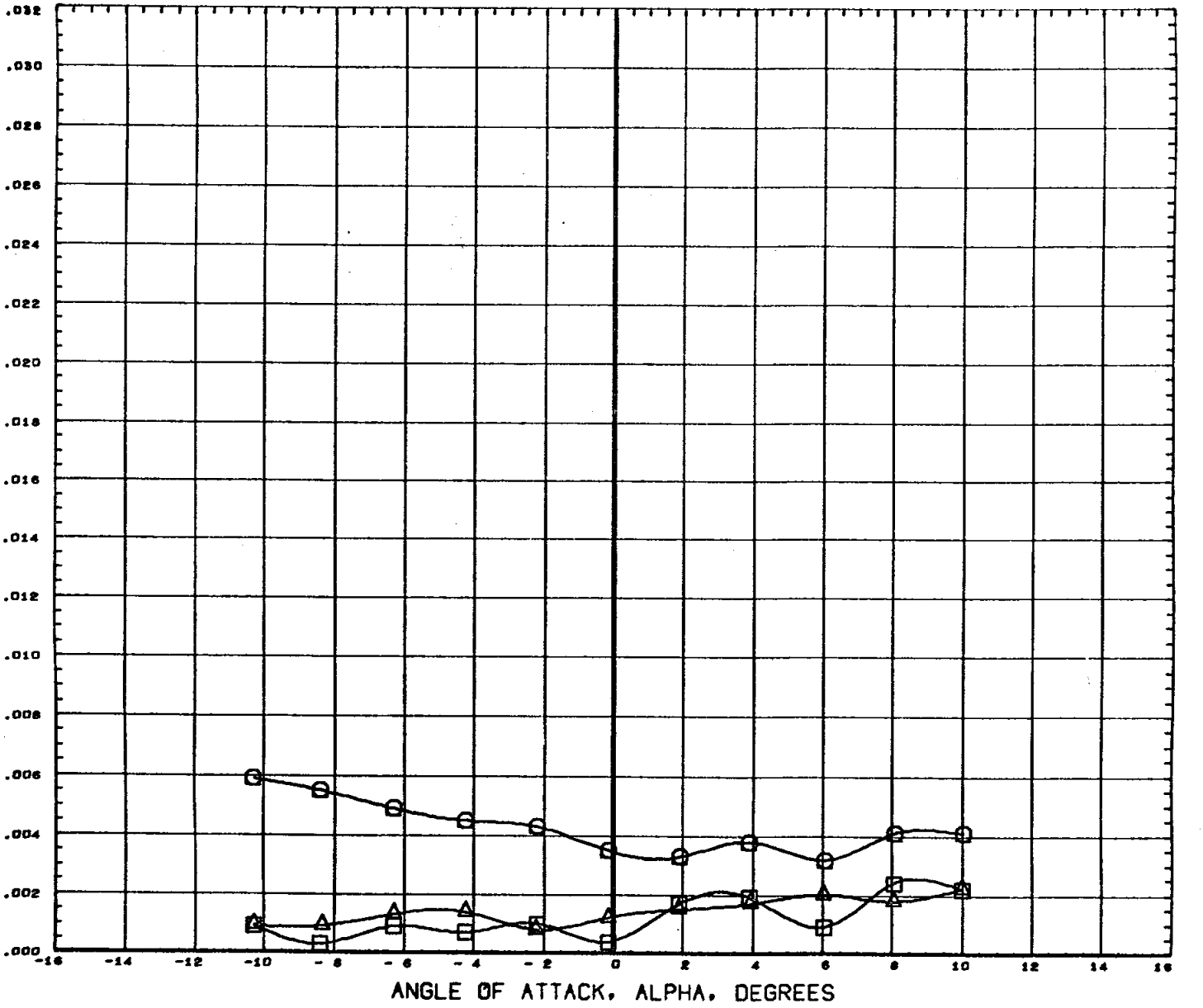
PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION

SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 2.99

EFFECT OF RUDDER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(A77026)	○	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77014)	△	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)
(A77036)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(A77018)	□	M556(IA1) NAR ATP BL LV (O1)(T1)(S1)

PHI	ORBINC	RUDDER	AILRON
60.000	0.000	15.000	0.000
60.000	0.000	0.000	0.000
60.000	-1.200	15.000	0.000
60.000	-1.200	0.000	0.000

REFERENCE INFORMATION		
SREF	7.4190	SQ.IN.
LREF	5.3120	IN.
BREF	5.3120	IN.
XMRP	4.8200	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0040	

MACH 4.96

A P P E N D I X

TABULATED SOURCE DATA LISTING

Tabulations of the plotted data are available from SADSAC Operations on request.

M556(IA1) NAR ATP BL LV (T3) (R77001) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 1.000

RUN NO. 140/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

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.598	5.960	.02270	.03450	.00740	.00890	-.00030	.01200	.00580
.598	7.970	.03200	.04430	.00640	.00880	.00000	.00340	.01640
.598	9.870	.04840	.04990	.00770	.00880	.00010	-.00480	.02290
.598	-.130	.00590	-.00310	.00840	.00780	.00010	.01170	.00580
	GRADIENT	.00376	.00599	-.00018	.00026	-.00002	.00118	-.00133

RUN NO. 141/ 0 RN/L = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.270	-.09070	-.02620	.01220	-.00110	.00000	.01100	.02630
.902	-8.330	-.07040	-.02010	.01300	-.00030	.00000	.01390	.02170
.902	-6.290	-.05170	-.01610	.00980	.00130	.00000	.01880	.01550
.902	-4.230	-.03640	-.00980	.01050	.00180	.00000	.01720	.01440
.902	-2.180	-.01910	-.00450	.01140	.00230	.00000	.01940	.01190
.902	-.140	-.00160	-.00110	.01090	.00330	.00000	.01570	.01310
.902	1.890	.01580	.00360	.01040	.00350	.00000	.01180	.01640
.902	3.940	.03600	.00780	.00850	.00480	.00000	.01050	.02230
.902	6.030	.05360	.01380	.00860	.00580	.00000	.00040	.03400
.902	8.050	.07020	.01840	.00810	.00620	-.00010	-.01020	.04530
.902	9.980	.08690	.02430	.00820	.00650	.00000	-.01180	.04720
.902	-.130	.00090	.00000	.01010	.00320	.00000	.01520	.01280
	GRADIENT	.00880	.00212	-.00024	.00035	.00000	-.00103	.00099

M556(IA1) NAR ATP BL LV (T3) (R77001) (27 NOV 72)

REFERENCE DATA

BREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 1.000

RUN NO. 142/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.320	-.09140	-.03110	.01110	-.00080	.00000	.02710	.05760
.999	-8.370	-.07270	-.02490	.01060	.00010	-.00010	.03030	.05340
.999	-6.310	-.05290	-.01710	.01140	.00140	.00000	.03490	.04630
.999	-4.260	-.03700	-.01020	.01030	.00180	-.00010	.03560	.04360
.999	-2.190	-.01860	-.00430	.00990	.00260	.00000	.03560	.04230
.999	-.130	.00090	.00130	.00940	.00320	-.00010	.03390	.04270
.999	1.890	.01810	.00700	.00770	.00440	-.00020	.03090	.04500
.999	3.960	.03400	.01330	.00780	.00540	.00000	.03200	.04590
.999	6.050	.05300	.02020	.00860	.00590	.00000	.03040	.04630
.999	8.090	.07080	.02760	.00870	.00670	.00000	.03300	.05010
.999	10.050	.09170	.03470	.00950	.00650	.00000	.03020	.05360
.999	-.130	-.00260	.00250	.01060	.00340	-.00010	.03090	.04220
	GRADIENT	.00871	.00284	-.00035	.00044	.00000	-.00058	.00035

RUN NO. 143/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.200	-10.380	-.09600	-.03520	.00940	.00160	-.00020	.05020	.04850
1.200	-8.410	-.07310	-.02900	.00850	.00320	-.00020	.05130	.04430
1.200	-6.360	-.05450	-.02110	.00700	.00440	-.00020	.05390	.03850
1.200	-4.270	-.03480	-.01300	.00820	.00490	-.00020	.05480	.03470
1.200	-2.210	-.01940	-.00460	.00510	.00720	-.00040	.05560	.03270
1.200	-.130	-.00190	.00380	.00640	.00740	-.00010	.05410	.03450
1.200	1.920	.01440	.01080	.00380	.00890	.00000	.05280	.03450
1.200	3.960	.03110	.02000	.00450	.00980	-.00020	.05350	.03440
1.200	6.090	.05170	.02630	.00570	.00990	-.00020	.05280	.03870
1.200	8.140	.07230	.03330	.00480	.01010	-.00020	.05170	.04320
1.200	10.090	.09620	.03970	.00600	.00960	-.00020	.04830	.04890
1.200	-.130	-.00180	.00430	.00530	.00830	-.00010	.05560	.03290
	GRADIENT	.00804	.00395	-.00042	.00056	.00002	-.00026	.00006

M556(IA1) NAR ATP BL LV (T3) (R77001) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 1.000

RUN NO. 184/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.390	-.09740	-.04050	.00890	-.00050	-.00010	.15450	-.06030
1.462	-8.420	-.07210	-.03300	.00910	.00030	-.00020	.14900	-.05790
1.462	-6.330	-.05000	-.02570	.00870	.00140	-.00020	.13790	-.05060
1.462	-4.280	-.03200	-.01660	.00780	.00210	-.00020	.13020	-.04530
1.462	-2.210	-.01500	-.00760	.00900	.00250	-.00030	.12240	-.03830
1.462	-.150	.00180	.00050	.00760	.00360	-.00020	.11390	-.03020
1.462	1.930	.01990	.01020	.00880	.00380	-.00020	.10690	-.02310
1.462	3.990	.03580	.01870	.00790	.00510	-.00020	.10830	-.02360
1.462	6.150	.05690	.02760	.00800	.00570	-.00040	.12750	-.04000
1.462	8.170	.08010	.03480	.00870	.00580	-.00030	.14800	-.05890
1.462	10.130	.10750	.04170	.00990	.00610	-.00020	.15720	-.06590
1.462	-.120	.00390	.00060	.00760	.00370	-.00030	.11310	-.02950
	GRADIENT	.00824	.00427	.00000	.00035	.00000	-.00287	.00283

RUN NO. 148/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.960	-10.460	-.11690	-.03790	.00960	.00010	-.00020	.05430	.02510
1.960	-8.480	-.08320	-.03340	.00830	.00090	-.00020	.05410	.02290
1.960	-6.380	-.05680	-.02640	.00810	.00240	-.00010	.05380	.01990
1.960	-4.280	-.03620	-.01760	.00820	.00280	-.00010	.05520	.01720
1.960	-2.210	-.01770	-.00860	.00740	.00320	-.00030	.05710	.01580
1.960	-.130	.00180	.00070	.00700	.00380	-.00030	.05450	.01690
1.960	1.940	.01950	.01000	.00770	.00460	-.00030	.05450	.01710
1.960	4.010	.03720	.01910	.00730	.00540	-.00030	.05440	.01840
1.960	6.120	.06250	.02800	.00750	.00570	-.00030	.05330	.02170
1.960	8.210	.08780	.03490	.00860	.00570	-.00040	.05430	.02450
1.960	10.220	.12480	.03920	.01030	.00550	-.00030	.05470	.02690
1.960	-.130	.00080	.00100	.00650	.00410	-.00030	.05540	.01610
	GRADIENT	.00888	.00444	-.00007	.00032	-.00002	-.00020	.00018

MS56(IA1) NAR ATP BL LV (T3) (R77001) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 1.000

RUN NO. 1/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.160	-.12880	-.02470	.00900	.00060	-.00080	.05410	-.00080
4.959	-8.250	-.09970	-.02230	.00930	.00140	.00000	.05040	-.00010
4.959	-6.230	-.07390	-.02130	.00780	.00150	-.00010	.04670	.00040
4.959	-4.170	-.04780	-.01480	.01120	.00120	.00000	.04360	.00070
4.959	-2.180	-.02510	-.00880	.00810	.00270	.00000	.04140	.00070
4.959	-.150	.00400	-.00030	.00830	.00310	.00000	.03920	.00220
4.959	1.900	.02660	.00710	.00670	.00290	-.00060	.03950	.00260
4.959	3.910	.05240	.01360	.00680	.00210	-.00060	.04150	.00250
4.959	5.970	.07840	.01860	.00710	.00250	.00000	.04360	.00260
4.959	7.980	.10090	.02370	.00710	.00180	-.00080	.04670	.00310
4.959	9.880	.13320	.02350	.00890	.00120	.00000	.04840	.00330
	GRADIENT	.01246	.00359	-.00050	.00010	-.00009	-.00030	.00027

M556(IA1) NAR ATP BL LV (T3)(S1) (R77002) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.6200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 124/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.480	-.36460	-.00800	.02980	-.01260	-.00370	.08530	.04590
.598	-8.510	-.28880	-.00410	.02660	-.01090	-.00370	.09400	.04270
.598	-6.440	-.21660	-.00050	.02140	-.00860	-.00340	.09900	.04290
.598	-4.340	-.15000	.00130	.01850	-.00590	-.00250	.10330	.04130
.598	-2.240	-.08370	.00810	.01670	-.00440	-.00110	.10380	.04220
.598	-.150	-.00850	.01040	.01620	-.00330	.00010	.10210	.04250
.598	1.910	.05540	.00920	.01320	-.00140	.00100	.10240	.04070
.598	4.010	.13110	.00820	.01150	.00130	.00260	.09790	.04410
.598	6.170	.19230	.01040	.00740	.00350	.00350	.10070	.03730
.598	8.170	.26000	.01680	.01020	.00470	.00470	.09920	.03450
.598	10.160	.33630	.02130	.01080	.00570	.00600	.09210	.03290
.598	-.150	-.00610	.00970	.01620	-.00270	.00060	.10400	.04080
	GRADIENT	.03364	.00072	-.00084	.00083	.00059	-.00059	.00020

RUN NO. 125/ 0 RN/L = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.920	-.42470	-.00900	.02340	-.01130	-.00410	.10830	.06200
.900	-8.830	-.32660	-.00700	.02080	-.00990	-.00390	.11550	.05950
.900	-6.650	-.25020	.00600	.01940	-.00790	-.00340	.12510	.05630
.900	-4.480	-.17530	.01690	.01840	-.00700	-.00220	.13250	.05420
.900	-2.300	-.09460	.01670	.01700	-.00630	-.00140	.13150	.05180
.900	-.160	-.01030	.00740	.01700	-.00510	-.00010	.13310	.05110
.900	1.970	.07550	-.00550	.01610	-.00420	.00070	.13340	.05060
.900	4.130	.15910	-.00790	.01400	-.00150	.00210	.13190	.04920
.900	6.450	.23650	-.00670	.01500	-.00030	.00330	.12750	.05380
.900	8.470	.31450	-.00060	.01700	.00100	.00420	.12030	.05410
.900	10.510	.39650	.00210	.01890	.00160	.00530	.11170	.05420
.900	-.160	-.01040	.00740	.01560	-.00470	-.00010	.13230	.05140
	GRADIENT	.03903	-.00334	-.00045	.00061	.00050	.00003	-.00052

M556(IA1) NAR ATP BL LV (T3)(S1) (R77002) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 126/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-11.060	-.43800	-.01990	.02110	-.01040	-.00410	.15540	.06810
.999	-8.940	-.33690	-.01750	.01990	-.00980	-.00390	.16360	.06520
.999	-6.730	-.24880	-.00870	.01680	-.00730	-.00340	.17190	.06170
.999	-4.530	-.16820	.00260	.01800	-.00640	-.00220	.17790	.05830
.999	-2.330	-.08690	.00700	.01670	-.00510	-.00120	.18390	.05430
.999	-.170	-.00450	.00680	.01600	-.00450	-.00030	.18480	.05290
.999	2.020	.08060	.00540	.01600	-.00350	.00070	.18360	.05190
.999	4.190	.15920	.00750	.01350	-.00060	.00180	.18300	.05070
.999	6.390	.25140	.00920	.01480	.00000	.00330	.17320	.05420
.999	8.630	.33700	.01340	.01710	.00100	.00460	.17010	.05340
.999	10.700	.43210	.01650	.01830	.00190	.00540	.16070	.05510
.999	-.140	-.00200	.00750	.01730	-.00470	.00000	.18110	.05350
	GRADIENT	.03774	.00038	-.00045	.00061	.00045	.00046	-.00081

RUN NO. 127/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-11.250	-.45750	-.02730	.01280	-.00430	-.00350	.18280	.06370
1.199	-9.090	-.34890	-.02850	.01280	-.00340	-.00370	.18590	.06380
1.199	-6.840	-.25350	-.02170	.01380	-.00310	-.00330	.19090	.05970
1.199	-4.610	-.16910	-.01030	.01280	-.00170	-.00240	.19240	.05790
1.199	-2.400	-.08690	-.00490	.01170	-.00020	-.00130	.19180	.05740
1.199	-.170	-.00360	-.00060	.01070	.00160	-.00040	.19410	.05410
1.199	2.030	.07740	.00330	.01070	.00280	.00050	.19530	.05160
1.199	4.230	.15670	.01280	.00970	.00500	.00180	.19450	.05250
1.199	6.540	.24620	.02240	.01150	.00670	.00320	.19260	.05200
1.199	8.760	.33960	.02670	.01370	.00650	.00430	.18810	.05340
1.199	10.910	.44730	.02960	.01590	.00680	.00460	.18410	.05300
1.199	-.150	.00070	.00080	.01180	.00130	-.00020	.19410	.05310
	GRADIENT	.03690	.00246	-.00033	.00074	.00046	.00035	-.00075

M556(IA1) NAR ATP BL LV (T3)(S1) (R77002) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 180/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.463	-11.310	-.47770	-.01780	.01780	-.00830	-.00310	.23440	.00570
1.463	-9.110	-.35290	-.01950	.01890	-.00860	-.00330	.23680	.00170
1.463	-6.810	-.24960	-.01220	.01800	-.00750	-.00290	.23550	.00530
1.463	-4.590	-.16780	-.00060	.01650	-.00480	-.00210	.23430	.00610
1.463	-2.400	-.09020	.00700	.01550	-.00260	-.00120	.22510	.01330
1.463	-.170	-.00560	.00700	.01440	-.00140	-.00040	.21880	.01610
1.463	2.020	.07580	.00500	.01540	-.00100	.00010	.21910	.01690
1.463	4.270	.15750	.01390	.01710	.00010	.00150	.22570	.01130
1.463	6.530	.24640	.02260	.01920	.00060	.00220	.21850	.01730
1.463	8.800	.34700	.02790	.02090	.00220	.00310	.21280	.01820
1.463	10.980	.47010	.02680	.02420	.00250	.00360	.20900	.01830
1.463	-.130	.00060	.00750	.01500	-.00130	-.00030	.21720	.01830
	GRADIENT	.03688	.00122	.00005	.00051	.00038	-.00104	.00063

RUN NO. 152/ 0 RN/L = 8.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-11.390	-.51930	.02240	.01840	-.00670	-.00160	.23310	-.02890
1.966	-9.190	-.38720	.00830	.02800	-.01020	-.00210	.24110	-.03770
1.966	-6.900	-.26640	-.00020	.01990	-.00520	-.00230	.28440	-.07990
1.966	-4.600	-.16600	.00020	.01670	-.00380	-.00160	.29260	-.08760
1.966	-2.370	-.08240	.00360	.01580	-.00160	-.00060	.28470	-.07920
1.966	-.180	-.00410	.00040	.01500	-.00020	-.00020	.25130	-.05060
1.966	2.040	.07840	-.00210	.01590	.00050	.00050	.23020	-.02890
1.966	4.290	.16160	.00140	.01490	.00210	.00130	.23580	-.03200
1.966	6.580	.25880	.00220	.01890	.00190	.00240	.23590	-.03510
1.966	8.860	.37610	-.00370	.02610	-.00070	.00290	.22330	-.02690
1.966	11.060	.50950	-.02310	.02870	-.00020	.00260	.20910	-.01570
1.966	-.150	.00070	.00190	.01460	-.00020	-.00010	.24160	-.04180
	GRADIENT	.03677	-.00015	-.00016	.00063	.00031	-.00756	.00727

MSS6(IA1) NAR ATP BL LV (T3)(S1) (R77002) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 5/ 0 RN/L = 4.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.340	-.34400	.01870	.00980	-.00050	-.00090	.12780	.00130
4.959	-8.390	-.27640	.01170	.01010	-.00100	-.00130	.12400	.00250
4.959	-6.330	-.20550	.00920	.01210	-.00080	-.00090	.12440	.00030
4.959	-4.260	-.13790	.00460	.01070	-.00030	-.00110	.12170	.00200
4.959	-2.210	-.06990	.00620	.01440	.00080	-.00080	.12090	.00290
4.959	-.150	.00100	.00220	.01000	.00380	-.00020	.11420	.00520
4.959	1.890	.06540	.00400	.01350	.00160	.00000	.11510	.00590
4.959	3.920	.12650	.00230	.01220	.00130	.00040	.11490	.00660
4.959	6.030	.19720	-.00170	.01420	.00000	.00090	.11250	.00670
4.959	8.040	.26490	-.00790	.01610	-.00020	.00070	.11270	.00700
4.959	10.010	.33570	-.01660	.01320	.00110	.00090	.11520	.00660
	GRADIENT	.03246	-.00033	.00010	.00020	.00019	-.00095	.00060

MSS6(IA1) NAR ATP BL LV (T3)(S1) (R77003) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 131/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.020	.04770	-.00700	.11510	-.01470	.00940	.06470	.07620
.600	-8.120	.05150	-.00350	.09690	-.01340	.00830	.06710	.07430
.600	-6.090	.04580	.00170	.07030	-.00950	.00680	.07700	.06320
.600	-4.070	.03830	.00780	.04970	-.00640	.00500	.08160	.06040
.600	-2.040	.03750	.01000	.02690	-.00310	.00340	.08550	.05770
.600	-.030	.03910	.01100	.00860	-.00050	.00190	.08430	.06080
.600	2.010	.03790	.01160	-.01990	.00370	-.00010	.08950	.05530
.600	4.030	.03730	.01380	-.03810	.00690	-.00180	.08760	.05600
.600	6.120	.04070	.01240	-.06320	.01080	-.00420	.08630	.05580
.600	8.080	.04230	.01180	-.08750	.01450	-.00580	.08600	.05620
.600	10.020	.04600	.01150	-.10730	.01590	-.00750	.08130	.06060
.600	.000	.04120	.00920	.00630	.00000	.00140	.08580	.05940
	GRADIENT	-.00008	.00067	-.01098	.00165	-.00084	.00079	-.00055

RUN NO. 130/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-10.150	.04240	-.01380	.13630	-.02040	.00800	.11050	.08280
.903	-8.220	.04240	-.00990	.11390	-.01980	.00690	.11420	.07880
.903	-6.150	.03960	-.00650	.08730	-.01860	.00590	.11800	.06850
.903	-4.080	.04020	-.00330	.06150	-.01510	.00460	.11910	.06660
.903	-2.040	.03820	-.00120	.03420	-.00880	.00310	.11880	.06690
.903	.000	.03590	.00080	.00450	-.00110	.00100	.11890	.06450
.903	2.030	.03550	.00250	-.02620	.00790	-.00080	.12310	.06000
.903	4.070	.03220	.00440	-.05380	.01510	-.00270	.12430	.05760
.903	6.210	.03370	.00710	-.08070	.02030	-.00450	.12260	.06060
.903	8.180	.03650	.00690	-.10730	.02210	-.00610	.12390	.06570
.903	10.130	.03640	.00620	-.13050	.02260	-.00790	.12000	.07180
.903	.000	.03600	.00110	.00520	-.00100	.00120	.12150	.06430
	GRADIENT	-.00092	.00094	-.01429	.00378	-.00091	.00072	-.00122

M556(IA1) NAR ATP BL LV (T3)(S1) (R77003) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 129/ 0 RN/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.001	-10.200	.04180	-.00750	.15260	-.02420	.00880	.15800	.08790
1.001	-8.240	.04040	-.00390	.12540	-.02290	.00750	.16180	.08270
1.001	-6.180	.03770	-.00050	.09710	-.02170	.00620	.16790	.07230
1.001	-4.120	.03540	.00270	.06800	-.01800	.00450	.16970	.06870
1.001	-2.050	.03330	.00640	.03690	-.01120	.00270	.16890	.06870
1.001	.000	.03030	.00900	.00600	-.00230	.00090	.16850	.06930
1.001	2.060	.03100	.01060	-.03160	.00940	-.00130	.17010	.06730
1.001	4.090	.03130	.01250	-.06260	.01710	-.00370	.17450	.06300
1.001	6.280	.03280	.01430	-.09190	.02140	-.00580	.17040	.06830
1.001	8.230	.03220	.01560	-.12100	.02270	-.00750	.17240	.06940
1.001	10.190	.03570	.01330	-.14710	.02370	-.00920	.16640	.07910
1.001	.000	.03160	.00900	.00480	-.00220	.00050	.16510	.07180
	GRADIENT	-.00051	.00116	-.01606	.00442	-.00099	.00052	-.00062

RUN NO. 128/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-10.270	.01740	-.00230	.15820	-.01820	.00710	.18080	.07520
1.199	-8.300	.02130	.00000	.12830	-.01680	.00610	.18010	.07310
1.199	-6.220	.02070	.00000	.09540	-.01490	.00460	.17870	.07100
1.199	-4.150	.02270	.00210	.06720	-.01200	.00330	.17850	.06910
1.199	-2.090	.02150	.00450	.03620	-.00720	.00190	.17980	.06810
1.199	.000	.02170	.00870	.00330	.00020	.00030	.18010	.06930
1.199	2.050	.01980	.01020	-.03230	.00930	-.00110	.18240	.06540
1.199	4.110	.01880	.01320	-.06510	.01560	-.00310	.18530	.06380
1.199	6.290	.01840	.01480	-.09630	.01810	-.00490	.18520	.06450
1.199	8.300	.01700	.01650	-.12560	.01940	-.00660	.18720	.06590
1.199	10.240	.01850	.01710	-.15510	.01930	-.00830	.18830	.06710
1.199	.000	.01950	.00910	.00220	.00030	.00030	.17960	.07000
	GRADIENT	-.00046	.00135	-.01612	.00347	-.00076	.00078	-.00064

M556(IA1) NAR ATP BL LV (T3)(81) (R77003) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 181/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.463	-10.350	.02200	-.00750	.15860	-.00250	.00630	.17700	.07050
1.463	-8.350	.02210	-.00550	.12500	-.00350	.00500	.17530	.06920
1.463	-6.240	.02550	-.00260	.09380	-.00420	.00410	.17340	.06790
1.463	-4.170	.02360	-.00020	.06210	-.00460	.00270	.17460	.06400
1.463	-2.110	.02320	.00420	.03410	-.00430	.00160	.17420	.06320
1.463	-.020	.02300	.00680	.00260	-.00030	.00030	.17440	.06280
1.463	2.060	.02270	.00730	-.03040	.00390	-.00120	.17470	.06250
1.463	4.140	.02110	.00940	-.06150	.00570	-.00290	.17740	.06250
1.463	6.280	.02220	.00970	-.09370	.00440	-.00460	.17850	.06570
1.463	8.350	.02350	.00760	-.12390	.00350	-.00570	.17930	.06580
1.463	10.330	.02340	.00680	-.15510	.00060	-.00710	.18060	.06660
1.463	.000	.02090	.00640	.00210	-.00010	.00010	.17490	.06230
	GRADIENT	-.00026	.00107	-.01499	.00139	-.00067	.00029	-.00018

RUN NO. 151/ 0 RN/L = 6.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.968	-10.430	.02260	.00010	.17550	.00110	.00750	.16450	.05410
1.968	-8.430	.02440	.00040	.13560	.00240	.00600	.16320	.05060
1.968	-6.320	.02310	.00140	.09750	.00200	.00450	.15850	.05060
1.968	-4.190	.02190	.00300	.06490	.00000	.00310	.15810	.04910
1.968	-2.090	.02220	.00560	.03150	.00000	.00150	.15490	.04680
1.968	.000	.02240	.00740	-.00190	.00150	-.00020	.15520	.04660
1.968	2.090	.02250	.00780	-.03570	.00260	-.00190	.15630	.04620
1.968	4.190	.02350	.00810	-.06820	.00230	-.00380	.15900	.04620
1.968	6.340	.02410	.00750	-.10100	.00050	-.00530	.16290	.04680
1.968	8.460	.02390	.00710	-.13950	.00010	-.00660	.16760	.04660
1.968	10.430	.02650	.00630	-.17970	.00150	-.00850	.17110	.04900
1.968	.000	.02150	.00730	-.00240	.00170	-.00030	.15580	.04560
	GRADIENT	.00017	.00059	-.01592	.00034	-.00082	.00015	-.00031

M556(IA1) NAR ATP BL LV (T3)(S1) (R77003) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 80.000

RUN NO. 4/ 0 RN/L = 4.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.030	.01070	.00360	.18320	-.02410	.00590	.13290	.00670
4.959	-8.130	.00970	.00220	.14140	-.01260	.00430	.12580	.00670
4.959	-6.080	.01180	.00210	.10420	-.00450	.00290	.12200	.00660
4.959	-4.060	.00750	.00480	.07190	.00160	.00220	.11760	.00640
4.959	-2.030	.01230	.00360	.03630	.00500	.00170	.11630	.00660
4.959	.000	.00970	.00380	.00020	.00040	.00010	.11480	.00640
4.959	2.030	.01360	.00340	-.03400	-.00370	-.00120	.11590	.00650
4.959	4.040	.01200	.00430	-.07130	.00010	-.00210	.11780	.00660
4.959	6.130	.01060	.00370	-.10850	.00630	-.00310	.12230	.00660
4.959	8.130	.00960	.00380	-.14390	.01460	-.00400	.12660	.00660
4.959	10.050	.00860	.00390	-.18420	.02560	-.00580	.13270	.00690
	GRADIENT	.00051	-.00006	-.01761	-.00058	-.00057	-.00000	.00001

M556(IA1) NAR ATP BL LV (T3)(S1) (R77004) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 139/ 0 RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.500	-.37490	-.01030	.02170	-.00810	-.00370	.04760	.07740
.599	-8.530	-.29990	-.00640	.01980	-.00610	-.00370	.05840	.07540
.599	-6.430	-.22030	-.00180	.01580	-.00380	-.00330	.06160	.07730
.599	-4.300	-.14780	.00220	.01640	-.00310	-.00210	.06450	.07950
.599	-2.240	-.08130	.00300	.01450	-.00210	-.00160	.06770	.07610
.599	-.160	-.00610	.00310	.01500	-.00130	.00010	.07500	.06770
.599	1.910	.06170	.00040	.01090	.00050	.00070	.07340	.06960
.599	3.990	.13500	.00230	.00920	.00250	.00240	.07290	.07040
.599	6.100	.20500	.00960	.00980	.00360	.00350	.06850	.07040
.599	8.170	.27970	.01350	.00570	.00560	.00490	.06440	.06770
.599	10.160	.35370	.01870	.00850	.00610	.00570	.06450	.06050
.599	-.160	-.01070	.00240	.01270	-.00060	-.00010	.07940	.06430
	GRADIENT	.03418	-.00012	-.00087	.00067	.00055	.00109	-.00119

RUN NO. 138/ 0 RN/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.910	-.42610	-.00420	.01960	-.00940	-.00390	.10610	.06280
.901	-8.630	-.33270	-.00100	.01940	-.00860	-.00390	.11310	.06410
.901	-6.680	-.25280	.00640	.01790	-.00690	-.00320	.11830	.06440
.901	-4.490	-.17490	.01270	.01590	-.00480	-.00220	.11850	.06710
.901	-2.310	-.09160	.01190	.01440	-.00370	-.00130	.11820	.06900
.901	-.170	-.00760	.00070	.01350	-.00280	-.00060	.11580	.07160
.901	1.980	.08560	-.00980	.01340	-.00190	.00060	.10890	.07640
.901	4.110	.16540	-.01070	.01400	-.00040	.00160	.10790	.07730
.901	6.340	.24630	-.00540	.01450	-.00040	.00240	.10380	.07710
.901	8.510	.33420	-.00070	.01560	.00030	.00340	.10040	.07970
.901	10.570	.42320	.00270	.01680	.00040	.00420	.08950	.08130
.901	-.160	-.00620	.00290	.01500	-.00280	-.00030	.11400	.07070
	GRADIENT	.03992	-.00319	-.00022	.00049	.00044	-.00142	.00129

M556(IA1) NAR ATP BL LV (T3)(S1) (R77004) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 137/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-11.030	-.44360	-.01250	.02000	-.00930	-.00390	.15330	.06650
.998	-8.930	-.34030	-.00990	.01940	-.00830	-.00390	.16060	.06600
.998	-6.720	-.24920	-.00340	.01750	-.00650	-.00330	.16690	.06530
.998	-4.480	-.16490	.00350	.01630	-.00420	-.00250	.16890	.06620
.998	-2.320	-.08100	.00560	.01380	-.00300	-.00140	.16800	.06850
.998	-.140	.00160	.00370	.01360	-.00220	-.00100	.16390	.07330
.998	2.020	.08570	.00120	.01240	-.00050	.00010	.16160	.07350
.998	4.180	.16640	.00490	.01290	.00020	.00100	.15940	.07550
.998	6.460	.26040	.01100	.01600	.00000	.00240	.14680	.08320
.998	8.670	.35370	.01680	.01470	.00170	.00330	.14220	.08270
.998	10.770	.45550	.01820	.01710	.00190	.00370	.13340	.08430
.998	-.140	.00280	.00390	.01430	-.00230	-.00080	.16310	.07300
	GRADIENT	.03829	-.00007	-.00038	.00052	.00039	-.00117	.00109

RUN NO. 136/ 0 RN/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-11.230	-.45800	-.02810	.01120	-.00280	-.00310	.16860	.07400
1.199	-9.080	-.34870	-.02560	.01120	-.00220	-.00340	.17600	.07130
1.199	-6.830	-.25240	-.01870	.01180	-.00170	-.00300	.17910	.07050
1.199	-4.590	-.16330	-.00890	.01070	-.00010	-.00220	.18020	.06920
1.199	-2.350	-.07920	-.00240	.01070	.00090	-.00140	.17670	.07210
1.199	-.140	.00190	.00250	.01020	.00290	-.00050	.17580	.07360
1.199	2.060	.08850	.00630	.00920	.00440	.00020	.17470	.07390
1.199	4.300	.17140	.01360	.01030	.00500	.00140	.17180	.07870
1.199	6.560	.26470	.01950	.01190	.00500	.00240	.16500	.08440
1.199	8.800	.36580	.02580	.01410	.00540	.00290	.16150	.08450
1.199	10.970	.47410	.02830	.01850	.00530	.00340	.15870	.08250
1.199	-.130	.00620	.00240	.01080	.00280	-.00030	.17560	.07390
	GRADIENT	.03772	.00242	-.00010	.00062	.00040	-.00085	.00094

M556(IA1) NAR ATP BL LV (T3)(S1) (R77004) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 183/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-11.300	-.46640	-.02340	.01370	-.00660	-.00300	.23660	-.00280
1.462	-9.090	-.33960	-.02530	.01590	-.00680	-.00310	.23880	-.00410
1.462	-6.780	-.24030	-.01770	.01600	-.00610	-.00280	.23730	-.00100
1.462	-4.580	-.15650	-.00680	.01500	-.00430	-.00200	.23500	.00180
1.462	-2.390	-.08110	.00150	.01440	-.00290	-.00150	.22860	.00610
1.462	-.140	.00360	.00180	.01390	-.00110	-.00060	.21760	.01660
1.462	2.060	.08520	.00300	.01440	-.00020	.00000	.21200	.02360
1.462	4.290	.16570	.01370	.01440	.00070	.00080	.21960	.01810
1.462	6.570	.25460	.02220	.01500	.00140	.00170	.21780	.01820
1.462	8.830	.35920	.02890	.01830	.00170	.00270	.21180	.02140
1.462	11.020	.49070	.02410	.01740	.00390	.00290	.21180	.01880
1.462	-.130	.00670	.00150	.01340	-.00100	-.00070	.21870	.01560
	GRADIENT	.03654	.00191	-.00005	.00057	.00032	-.00214	.00226

RUN NO. 149/ 0 RN/L = 6.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.963	-11.370	-.50910	.01900	.01780	-.00630	-.00240	.14620	.05260
1.963	-9.160	-.36890	.00290	.01850	-.00590	-.00290	.14730	.05060
1.963	-6.870	-.25150	-.00560	.01370	-.00310	-.00270	.15390	.04790
1.963	-4.590	-.15720	-.00340	.01240	-.00150	-.00220	.15630	.04670
1.963	-2.360	-.07550	-.00060	.01340	-.00020	-.00120	.15520	.04530
1.963	-.170	.00540	-.00310	.01200	.00120	-.00070	.15260	.04480
1.963	2.060	.08800	-.00450	.01250	.00210	.00000	.15570	.04510
1.963	4.300	.17270	-.00060	.01440	.00240	.00090	.15510	.04770
1.963	6.600	.27670	.00100	.01560	.00240	.00200	.15430	.04810
1.963	8.920	.39730	-.00860	.02710	-.00230	.00270	.14830	.05140
1.963	11.120	.53270	-.02460	.03010	-.00200	.00210	.14460	.05230
1.963	-.140	.00950	-.00200	.01410	.00100	-.00050	.15480	.04320
	GRADIENT	.03709	.00008	.00014	.00045	.00033	-.00008	.00008

M556(IA1) NAR ATP BL LV (T3)(S1) (R77004) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 2/ 0 RN/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.330	-.34080	.01920	.00980	-.00090	-.00120	.12220	.00650
4.959	-8.380	-.26360	.01070	.01490	-.00290	-.00090	.11980	.00650
4.959	-6.330	-.19600	.00540	.01040	-.00140	-.00110	.11930	.00670
4.959	-4.260	-.12820	.00230	.01410	-.00140	-.00020	.11910	.00650
4.959	-2.200	-.06370	.00160	.01440	-.00030	.00000	.12010	.00650
4.959	-.150	.01050	-.00240	.01170	.00250	.00030	.11590	.00660
4.959	1.890	.07470	-.00360	.01350	-.00030	.00040	.12160	.00400
4.959	3.920	.13910	-.00330	.01220	.00010	.00040	.11940	.00590
4.959	6.040	.20980	-.00820	.01250	-.00100	.00080	.11740	.00650
4.959	8.050	.28050	-.01230	.01450	-.00230	.00110	.11680	.00660
4.959	10.050	.35790	-.02150	.01800	-.00230	.00070	.11880	.00690
	GRADIENT	.03291	-.00081	-.00023	.00015	.00008	.00010	-.00018

M556(IA1) NAR ATP BL LV (T3)(S1) (R77005) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 132/ 0 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	.04480	-.00750	.11000	-.01780	.00400	.06290	.07720
.599	-8.100	.04600	-.00650	.09030	-.01550	.00360	.06530	.07450
.599	-6.080	.04320	-.00400	.06780	-.01070	.00340	.07660	.06380
.599	-4.060	.04470	-.00200	.04830	-.00760	.00290	.07750	.06400
.599	-2.040	.04170	-.00120	.02560	-.00410	.00220	.08440	.06000
.599	.000	.04340	.00080	.00630	-.00060	.00160	.08610	.05900
.599	2.010	.04260	.00250	-.01530	.00330	.00080	.08610	.05880
.599	4.030	.03960	.00440	-.03820	.00760	-.00010	.08720	.05650
.599	6.110	.04120	.00810	-.05880	.01070	-.00120	.08590	.05730
.599	8.090	.03830	.01010	-.08200	.01460	-.00170	.08590	.05680
.599	10.020	.04200	.01030	-.10250	.01740	-.00250	.08360	.05830
.599	.000	.04570	.00010	.00520	.00020	.00160	.08500	.06010
	GRADIENT	-.00046	.00082	-.01057	.00187	-.00037	.00104	-.00080

RUN NO. 133/ 0 RN/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.905	-10.110	.04280	-.01190	.13160	-.02300	.00350	.10740	.08530
.905	-8.190	.04130	-.01020	.10890	-.02290	.00330	.11320	.07650
.905	-6.160	.04560	-.00890	.08260	-.01990	.00300	.11680	.07100
.905	-4.090	.04510	-.00690	.05650	-.01480	.00250	.11550	.06890
.905	-2.060	.04580	-.00410	.03190	-.00850	.00200	.11880	.06700
.905	-.020	.04250	-.00150	.00460	-.00060	.00100	.11740	.06590
.905	2.020	.04090	.00080	-.02470	.00820	.00010	.12190	.06310
.905	4.060	.03780	.00400	-.05230	.01580	-.00090	.12350	.06090
.905	6.140	.03390	.00690	-.07900	.02160	-.00170	.12470	.06190
.905	8.170	.03280	.00790	-.10600	.02550	-.00260	.12420	.06670
.905	10.120	.03450	.00810	-.12710	.02540	-.00310	.11800	.07350
.905	.000	.04160	-.00210	.00320	-.00020	.00100	.11900	.06560
	GRADIENT	-.00096	.00131	-.01345	.00382	-.00043	.00094	-.00098

M556(IA1) NAR ATP BL LV (T3)(S1) (R77005) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 134/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.150	.03980	-.00870	.14350	-.02610	.00360	.15730	.08650
.999	-8.210	.03960	-.00690	.11640	-.02430	.00300	.16010	.08090
.999	-6.220	.03860	-.00330	.09100	-.02170	.00250	.16240	.07750
.999	-4.090	.03630	-.00080	.06040	-.01630	.00200	.16550	.07210
.999	-2.040	.03320	.00180	.03140	-.00950	.00120	.16830	.06980
.999	.000	.03270	.00420	.00180	-.00040	.00060	.16760	.07070
.999	2.060	.02970	.00570	-.03220	.00980	-.00010	.16900	.06860
.999	4.090	.03120	.00700	-.06100	.01710	-.00130	.16850	.06880
.999	6.200	.03040	.00870	-.09020	.02180	-.00200	.16460	.07380
.999	8.220	.03020	.00890	-.11760	.02490	-.00280	.16490	.07620
.999	10.190	.03270	.00840	-.14190	.02570	-.00300	.15920	.08490
.999	.000	.03290	.00420	.00120	.00000	.00060	.16420	.07200
	GRADIENT	-.00067	.00095	-.01498	.00421	-.00039	.00033	-.00038

RUN NO. 135/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.200	-10.230	.03080	-.00240	.14890	-.01860	.00340	.17540	.07950
1.200	-8.270	.03140	-.00040	.12030	-.01790	.00290	.17590	.07670
1.200	-6.200	.03210	.00000	.09040	-.01590	.00240	.17450	.07530
1.200	-4.140	.03000	.00440	.06110	-.01170	.00210	.17590	.07230
1.200	-2.060	.02680	.00770	.03130	-.00650	.00120	.17850	.07070
1.200	.000	.02820	.00980	-.00090	.00200	.00040	.17960	.07040
1.200	2.040	.02860	.01260	-.03270	.01050	-.00050	.17980	.06910
1.200	4.120	.02770	.01590	-.06260	.01630	-.00170	.18180	.06680
1.200	6.280	.02640	.01710	-.09330	.01890	-.00250	.18350	.06730
1.200	8.260	.02710	.01750	-.12050	.02020	-.00340	.18350	.07010
1.200	10.260	.02650	.01910	-.14970	.01990	-.00400	.18500	.07130
1.200	.000	.03030	.00960	-.00190	.00240	.00040	.17840	.07170
	GRADIENT	-.00014	.00135	-.01510	.00354	-.00045	.00064	-.00061

M556(IA1) NAR ATP BL LV (T3)(S1) (R77003) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 182/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.300	.03080	-.00630	.14930	-.00270	.00260	.17400	.07100
1.462	-8.330	.03100	-.00530	.11880	-.00410	.00220	.17370	.06920
1.462	-6.220	.03230	-.00270	.08830	-.00500	.00180	.17320	.06610
1.462	-4.160	.03060	-.00130	.05930	-.00560	.00140	.17270	.06350
1.462	-2.090	.03030	.00060	.03140	-.00420	.00080	.17220	.06250
1.462	.000	.03120	.00180	.00100	.00010	.00010	.17280	.06150
1.462	2.040	.03000	.00350	-.03130	.00540	-.00050	.17450	.06050
1.462	4.140	.02970	.00720	-.05920	.00650	-.00170	.17740	.06100
1.462	6.250	.02880	.00950	-.08980	.00500	-.00240	.17950	.06280
1.462	8.340	.03010	.01010	-.12000	.00370	-.00340	.17910	.06490
1.462	10.330	.03330	.01080	-.14940	.00180	-.00390	.17950	.06630
1.462	.000	.03020	.00190	.00100	.00000	.00010	.17350	.06120
	GRADIENT	-.00010	.00096	-.01446	.00163	-.00036	.00056	-.00034

RUN NO. 150/ 0 RN/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.410	.02810	-.00290	.16550	.00320	.00190	.16110	.05520
1.969	-8.400	.03000	-.00070	.12890	.00390	.00210	.15890	.05290
1.969	-6.310	.02990	-.00050	.09280	.00360	.00170	.15720	.05020
1.969	-4.190	.02960	.00120	.06240	.00090	.00140	.15650	.04920
1.969	-2.110	.03090	.00350	.03150	.00000	.00060	.15670	.04650
1.969	.000	.02930	.00410	-.00240	.00220	-.00030	.15200	.04710
1.969	2.080	.03050	.00530	-.03410	.00390	-.00110	.15320	.04670
1.969	4.160	.02840	.00710	-.06580	.00280	-.00190	.15660	.04650
1.969	6.310	.02820	.00730	-.09810	.00040	-.00250	.16070	.04730
1.969	8.420	.02890	.00720	-.13330	-.00020	-.00300	.16410	.04860
1.969	10.430	.03360	.00540	-.17150	.00080	-.00350	.16660	.04970
1.969	.000	.02940	.00320	-.00380	.00260	-.00030	.15260	.04640
	GRADIENT	-.00013	.00065	-.01541	.00037	-.00040	-.00016	-.00025

M556(IA1) NAR ATP BL LV (T3)(S1) (R77005) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 2.000
PHI = 90.000

RUN NO. 3/ 0 RN/L = 4.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.050	.01990	-.00260	.17950	-.02490	.00060	.13270	.00690
4.959	-8.120	.02230	-.00270	.14100	-.01410	.00120	.12610	.00670
4.959	-6.080	.02120	-.00330	.10230	-.00440	.00020	.12210	.00660
4.959	-4.060	.01690	-.00290	.06850	.00180	.00030	.11880	.00650
4.959	-2.030	.01850	-.00450	.03290	.00600	.00000	.11760	.00650
4.959	.000	.02560	-.00670	.00030	.00080	-.00020	.11790	.00410
4.959	2.030	.02300	-.00500	-.03720	-.00350	-.00080	.11800	.00580
4.959	4.040	.02130	-.00330	-.07130	-.00100	-.00190	.11900	.00600
4.959	6.120	.02010	-.00320	-.10660	.00570	-.00140	.12220	.00640
4.959	8.110	.01920	-.00300	-.14520	.01580	-.00130	.12750	.00660
4.959	10.070	.02160	-.00240	-.18040	.02600	-.00130	.13330	.00710
	GRADIENT	.00066	-.00006	-.01726	-.00075	-.00026	.00004	-.00008

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77006) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	3.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 103/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.560	-.69440	.23340	.05580	-.02340	.00610	.11730	.12860
.599	-8.560	-.56950	.19770	.05550	-.02370	.00560	.12360	.12960
.599	-6.440	-.44350	.16370	.05130	-.02210	.00540	.13050	.12420
.599	-4.360	-.33020	.12820	.05400	-.02340	.00600	.13130	.12400
.599	-2.290	-.21620	.09420	.05220	-.02170	.00700	.13440	.12000
.599	-.180	-.10740	.06130	.04910	-.02000	.00740	.13360	.11650
.599	1.900	.01200	.02300	.04530	-.01640	.00810	.12780	.11620
.599	3.980	.12750	-.01410	.04810	-.01830	.00930	.12320	.11290
.599	6.120	.25560	-.05700	.04050	-.01390	.00880	.11790	.10780
.599	8.190	.37320	-.09410	.04250	-.01410	.01040	.11090	.10710
.599	10.190	.48340	-.12350	.03730	-.01170	.01040	.10790	.10170
.599	-.180	-.10230	.06070	.04780	-.01880	.00690	.13010	.11830
	GRADIENT	.05479	-.01705	-.00090	.00065	.00037	-.00109	-.00125

RUN NO. 102/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.890	-.73810	.23210	.05060	-.02330	.00570	.14040	.13880
.799	-8.820	-.60360	.19840	.05170	-.02280	.00520	.14410	.13780
.799	-6.660	-.46780	.16310	.05200	-.02240	.00510	.14680	.13340
.799	-4.480	-.33740	.12660	.05190	-.02340	.00560	.14830	.13260
.799	-2.360	-.22180	.09590	.04930	-.02160	.00600	.14400	.13540
.799	-.200	-.10550	.06460	.04700	-.01910	.00680	.13770	.13530
.799	1.930	.01890	.02210	.04670	-.01820	.00760	.13650	.12860
.799	4.090	.14690	-.02070	.04130	-.01540	.00780	.13370	.12600
.799	6.250	.26730	-.05680	.04110	-.01360	.00810	.13210	.11950
.799	8.370	.39810	-.09910	.04350	-.01520	.00950	.12430	.11780
.799	10.390	.51350	-.13270	.03750	-.01120	.00850	.12100	.11580
.799	-.190	-.10330	.06440	.04600	-.01860	.00660	.14100	.13180
	GRADIENT	.05643	-.01719	-.00111	.00091	.00028	-.00171	-.00093

MS56(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77006) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	5.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 101/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-11.030	-.75660	.23750	.05250	-.02440	.00580	.15930	.16050
.901	-8.930	-.61420	.20450	.05490	-.02550	.00550	.16300	.15700
.901	-6.720	-.47010	.16900	.05150	-.02420	.00540	.16340	.15660
.901	-4.540	-.33820	.13320	.04790	-.02270	.00480	.16620	.15280
.901	-2.380	-.21870	.09910	.04900	-.02310	.00570	.16510	.15020
.901	-.180	-.09470	.06570	.04770	-.02130	.00600	.16020	.14910
.901	1.960	.03120	.02180	.04450	-.01920	.00690	.15870	.14200
.901	4.120	.16270	-.02440	.04360	-.01700	.00720	.15100	.13990
.901	6.320	.29950	-.07330	.03930	-.01360	.00710	.15150	.13340
.901	8.480	.43160	-.11600	.04110	-.01370	.00750	.14430	.13240
.901	10.510	.54220	-.14640	.03570	-.01030	.00720	.13640	.13110
.901	-.180	-.09390	.06370	.04660	-.02030	.00560	.15650	.14850
	GRADIENT	.05779	-.01812	-.00060	.00071	.00028	-.00170	-.00157

RUN NO. 100/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-11.110	-.84340	.32480	.05260	-.02620	.00610	.22220	.19370
.998	-8.980	-.68430	.28000	.05450	-.02660	.00650	.22660	.18640
.998	-6.770	-.53370	.23210	.05360	-.02630	.00630	.22800	.18190
.998	-4.540	-.38800	.18720	.05400	-.02650	.00660	.22860	.17800
.998	-2.340	-.24990	.14380	.05380	-.02480	.00640	.23020	.17320
.998	-.160	-.12500	.10640	.05190	-.02410	.00670	.22780	.16970
.998	2.000	.00950	.05610	.04770	-.02030	.00660	.21990	.16670
.998	4.190	.15920	-.00300	.04240	-.01540	.00650	.21230	.16200
.998	6.430	.32460	-.07050	.04410	-.01410	.00760	.20710	.15440
.998	8.580	.46240	-.12420	.04240	-.01310	.00760	.19800	.15280
.998	10.630	.59410	-.17340	.03920	-.01120	.00780	.19050	.15010
.998	-.160	-.12010	.10340	.05240	-.02370	.00680	.22380	.17320
	GRADIENT	.06210	-.02147	-.00134	.00122	-.00000	-.00197	-.00177

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77006) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 3.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 99/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.198	-11.360	-.82500	.26540	.03880	-.01830	.00590	.24670	.15960
1.198	-9.160	-.65530	.22350	.03890	-.01740	.00500	.24890	.15520
1.198	-6.870	-.49570	.18500	.03720	-.01530	.00400	.24870	.15210
1.198	-4.600	-.34520	.14310	.03470	-.01220	.00360	.24800	.15200
1.198	-2.370	-.21110	.10450	.03370	-.01050	.00360	.24710	.15120
1.198	-.170	-.07460	.06370	.03270	-.00730	.00420	.24670	.15010
1.198	2.070	.07230	.01400	.03010	-.00510	.00490	.24190	.14800
1.198	4.280	.21240	-.03330	.02810	-.00200	.00500	.23770	.14820
1.198	6.550	.33770	-.06960	.02640	-.00020	.00530	.23360	.14470
1.198	8.740	.45710	-.09920	.02860	-.00140	.00620	.22720	.14310
1.198	10.820	.56950	-.11670	.02800	-.00080	.00640	.22350	.14100
1.198	-.130	-.06260	.05950	.03340	-.00700	.00440	.24650	.15100
	GRADIENT	.06300	-.01997	-.00076	.00116	.00018	-.00116	-.00049

RUN NO. 175/ 0 RN/L = 8.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.463	-11.450	-.79850	.22360	.04960	-.03050	.00730	.24200	.13030
1.463	-.150	-.04440	.03490	.04710	-.02220	.00730	.24910	.12470
1.463	10.920	.54120	-.07850	.04460	-.01160	.00720	.23690	.11890
1.463	-4.620	-.29160	.09800	.05020	-.02730	.00770	.24460	.12570
1.463	-2.370	-.16490	.06670	.04710	-.02360	.00720	.24710	.12640
1.463	-.150	-.04020	.03330	.04670	-.02190	.00750	.24980	.12390
1.463	2.070	.08740	-.00220	.04660	-.02050	.00730	.24410	.12560
1.463	4.290	.21320	-.03590	.04410	-.01610	.00700	.24550	.12490
1.463	6.570	.33410	-.06040	.04110	-.01280	.00690	.24620	.12370
1.463	8.750	.44000	-.07640	.03900	-.00890	.00680	.24170	.12220
1.463	10.900	.54300	-.07910	.04200	-.01020	.00690	.23620	.12130
1.463	-.140	-.03600	.03320	.04610	-.02150	.00710	.25050	.12380
	GRADIENT	.05384	-.01165	-.00033	.00100	-.00003	-.00062	-.00042

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77006) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 3.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 153/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.970	-11.480	-.72620	.17700	.03550	-.01780	.00440	.22340	.09380
1.970	-9.280	-.56370	.13460	.04940	-.02520	.00460	.22060	.09190
1.970	-6.960	-.39940	.09200	.04190	-.01970	.00400	.21900	.09040
1.970	-4.670	-.25500	.05940	.03730	-.01630	.00360	.22010	.08920
1.970	-2.410	-.13640	.03790	.03540	-.01410	.00400	.22090	.09100
1.970	-.190	-.03120	.01760	.03640	-.01300	.00450	.22170	.09110
1.970	2.040	.07720	-.00140	.03670	-.01250	.00510	.21630	.08970
1.970	4.270	.18170	-.01960	.03590	-.01120	.00530	.21750	.09060
1.970	6.600	.29700	-.03400	.03850	-.01020	.00580	.21650	.09060
1.970	8.850	.40580	-.04170	.03870	-.00700	.00620	.21380	.08870
1.970	11.030	.51620	-.04640	.04400	-.01020	.00750	.21000	.08750
1.970	-.150	-.02480	.01860	.03760	-.01300	.00460	.22120	.08800
	GRADIENT	.04868	-.00884	-.00007	.00053	.00020	-.00044	.00007

RUN NO. 7/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.640	-.56710	.11750	.02290	-.00990	.00230	.23060	.03770
2.990	-8.630	-.44950	.09210	.02710	-.01150	.00190	.22220	.03850
2.990	-6.490	-.33930	.07160	.02280	-.00840	.00190	.21370	.03960
2.990	-4.370	-.22930	.05070	.02430	-.00910	.00220	.21180	.04000
2.990	-2.260	-.13240	.03830	.02560	-.00970	.00240	.21220	.04010
2.990	-.150	-.05240	.03560	.02610	-.00910	.00270	.20860	.03980
2.990	1.960	.03310	.02510	.02460	-.00790	.00310	.20450	.03880
2.990	4.040	.12240	.01480	.02600	-.00770	.00360	.20150	.03870
2.990	6.180	.21580	.00420	.02840	-.00820	.00440	.19450	.03900
2.990	8.270	.31080	-.00510	.02790	-.00800	.00510	.18780	.03960
2.990	10.330	.41340	-.02340	.02550	-.00630	.00500	.17820	.04120
	GRADIENT	.04130	-.00404	.00011	.00022	.00017	-.00134	-.00019

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77006) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	3.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 6/ 1 RN/L = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.350	-.46830	.09450	.01620	-.00430	.00090	.24300	.00460
4.959	-8.400	-.39110	.08450	.01660	-.00400	.00140	.22370	.00500
4.959	-6.320	-.30780	.06860	.01680	-.00600	.00140	.20740	.00590
4.959	-4.270	-.22430	.05650	.01710	-.00650	.00120	.19840	.00660
4.959	-2.210	-.14670	.05270	.01920	-.00490	.00150	.19220	.00740
4.959	-.150	-.07260	.04990	.01790	-.00400	.00150	.18460	.00850
4.959	1.900	.00780	.04270	.01840	-.00340	.00220	.17550	.00880
4.959	3.930	.08160	.03060	.01870	-.00420	.00280	.16510	.00880
4.959	6.020	.16170	.01570	.01740	-.00460	.00330	.16070	.00910
4.959	8.050	.23580	.00900	.01610	-.00270	.00250	.15230	.00980
4.959	10.040	.31920	-.00990	.01490	-.00230	.00270	.14910	.00990
	GRADIENT	.03736	-.00301	.00012	.00030	.00019	-.00406	.00028

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77007) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 3.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 94/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.090	.01710	-.01310	.37740	-.16210	.06110	.11040	.13100
.598	-8.170	.01000	-.00150	.31690	-.13680	.05400	.11210	.13020
.598	-6.130	-.00830	.01190	.23580	-.10480	.04310	.12030	.12030
.598	-4.080	-.01070	.02040	.16930	-.07550	.03210	.12480	.11840
.598	-2.060	-.01530	.02790	.09580	-.04270	.01890	.13300	.11200
.598	-.010	-.02200	.03510	.01670	-.00630	.00510	.13310	.11530
.598	2.020	-.02210	.03780	-.06220	.02890	-.00870	.13410	.11340
.598	4.060	-.01990	.03790	-.13740	.06390	-.02210	.13050	.11660
.598	6.140	-.02010	.03560	-.21960	.10070	-.03630	.11970	.12570
.598	8.170	-.00910	.02920	-.28470	.12830	-.04690	.11940	.12590
.598	10.070	.00600	.02210	-.35060	.15420	-.05700	.11440	.13290
.598	.000	-.02660	.03660	.01090	-.00390	.00330	.13500	.11300
	GRADIENT	-.00124	.00220	-.03789	.01721	-.00668	.00061	-.00011

RUN NO. 95/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.801	-10.200	.00880	-.00250	.40490	-.17670	.06470	.11910	.14940
.801	-8.250	-.00400	.00910	.33580	-.15220	.05590	.12490	.14370
.801	-6.190	-.01630	.02330	.26050	-.12090	.04490	.13030	.13870
.801	-4.120	-.02520	.03290	.18470	-.08530	.03330	.13250	.13560
.801	-2.070	-.03420	.04030	.09870	-.04490	.01900	.13740	.13210
.801	-.010	-.04030	.04710	.01580	-.00690	.00380	.14290	.12780
.801	2.040	-.03710	.04760	-.06840	.03290	-.01110	.14700	.12490
.801	4.090	-.03390	.04590	-.15240	.07340	-.02570	.14300	.12750
.801	6.160	-.02800	.04350	-.23070	.11060	-.03920	.13860	.13180
.801	8.220	-.01320	.03410	-.30550	.14270	-.05020	.13380	.13730
.801	10.190	-.00490	.02520	-.37860	.17050	-.06070	.12390	.14880
.801	-.010	-.03230	.04500	.01720	-.00660	.00280	.14350	.12690
	GRADIENT	-.00099	.00162	-.04098	.01925	-.00721	.00149	-.00114

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77007) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	3.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 96/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.250	.00370	.00120	.41390	-.18240	.06710	.14480	.15780
.902	-8.290	.00280	.00900	.34340	-.15820	.05860	.14920	.15280
.902	-6.220	-.01710	.02700	.26560	-.12500	.04690	.15360	.14920
.902	-4.130	-.02780	.03680	.18550	-.08790	.03400	.16000	.14460
.902	-2.080	-.03390	.04440	.10360	-.04720	.01870	.16040	.14410
.902	-.030	-.03940	.05050	.01340	-.00600	.00310	.16530	.14080
.902	2.050	-.04040	.05290	-.07660	.03640	-.01230	.16440	.14260
.902	4.090	-.03730	.05180	-.16120	.07780	-.02820	.16450	.14170
.902	6.210	-.03440	.04870	-.24370	.11830	-.04220	.15500	.14590
.902	8.280	-.02290	.03990	-.32790	.15560	-.05480	.15800	.15170
.902	10.220	-.01490	.03360	-.40250	.18220	-.06420	.15240	.15930
.902	-.010	-.03630	.04850	.01320	-.00540	.00200	.15530	.14370
	GRADIENT	-.00124	.00187	-.04247	.02018	-.00755	.00063	-.00035

RUN NO. 97/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.300	-.02490	.03770	.45560	-.21220	.07960	.20970	.18020
.999	-8.320	-.03370	.04810	.37370	-.17820	.06690	.21190	.17770
.999	-6.240	-.04560	.06070	.28680	-.13820	.05240	.21890	.17250
.999	-4.170	-.05480	.07220	.19500	-.09380	.03590	.22360	.16950
.999	-2.080	-.06510	.08290	.10340	-.04970	.01900	.22780	.16710
.999	-.030	-.07210	.09120	.01350	-.00590	.00310	.22810	.16850
.999	2.060	-.06840	.09040	-.08890	.04430	-.01430	.22680	.16950
.999	4.160	-.06350	.08570	-.18330	.09000	-.03190	.22390	.17060
.999	6.250	-.05590	.08070	-.27600	.13600	-.04920	.22150	.17200
.999	8.300	-.04400	.07270	-.36740	.17880	-.06450	.21570	.17560
.999	10.260	-.03960	.06720	-.45280	.21600	-.07830	.21180	.17820
.999	.000	-.06920	.08780	.00550	-.00260	.00110	.22500	.16970
	GRADIENT	-.00099	.00165	-.04562	.02219	-.00812	-.00002	.00022

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77007) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	3.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 98/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-10.410	-.01030	.01850	.43390	-.18150	.07730	.24090	.15610
1.199	-8.400	-.01650	.02960	.35070	-.15110	.06550	.24180	.15440
1.199	-6.300	-.02310	.04150	.26570	-.11580	.05180	.24310	.15120
1.199	-4.180	-.03300	.05220	.17590	-.07680	.03560	.24500	.15060
1.199	-2.080	-.03830	.06270	.08940	-.03770	.01810	.24620	.14960
1.199	-.010	-.04040	.06960	.00150	.00210	.00170	.24600	.15100
1.199	2.080	-.04180	.06960	-.08990	.04310	-.01610	.24710	.15040
1.199	4.170	-.03770	.06650	-.17860	.08340	-.03420	.24770	.14990
1.199	6.300	-.02630	.05850	-.26940	.12360	-.05140	.24700	.14960
1.199	8.380	-.01960	.05120	-.35590	.15810	-.06630	.24610	.15150
1.199	10.380	-.00800	.04150	-.43770	.18630	-.07940	.24570	.15230
1.199	.000	-.04600	.07080	-.00560	.00490	.00000	.24650	.15090
	GRADIENT	-.00062	.00170	-.04258	.01923	-.00833	.00030	-.00003

RUN NO. 174/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.450	.00030	-.00070	.43980	-.17390	.07390	.25020	.12780
1.461	-8.440	.00610	-.00070	.35410	-.14680	.06210	.24840	.12650
1.461	-6.290	.00600	.00380	.26690	-.11570	.04920	.24790	.12630
1.461	-4.210	.00350	.01150	.18080	-.08080	.03510	.24820	.12690
1.461	-2.110	.00010	.01800	.09530	-.04440	.01870	.25130	.12410
1.461	.000	-.00310	.02210	.00910	-.00600	.00280	.25470	.12070
1.461	2.080	-.00010	.02310	-.07910	.03410	-.01370	.25470	.12320
1.461	4.190	.00250	.02210	-.16500	.07000	-.03010	.25430	.12590
1.461	6.400	.00910	.01680	-.25750	.10850	-.04630	.25360	.12460
1.461	8.440	.00790	.01610	-.34160	.13810	-.05950	.25420	.12550
1.461	10.460	.00310	.01650	-.43020	.16570	-.07220	.25370	.12470
1.461	.000	.00000	.02110	.00640	-.00480	.00150	.25500	.12060
	GRADIENT	-.00011	.00125	-.04126	.01811	-.00776	.00074	-.00014

M556(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77007) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	3.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 154/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.580	-.02450	.02150	.42530	-.14870	.06210	.23520	.08760
1.969	-8.530	-.01560	.01880	.33690	-.11960	.04920	.23220	.08750
1.969	-6.390	-.00840	.01590	.24830	-.09010	.03650	.22970	.08850
1.969	-4.260	-.00280	.01460	.16490	-.06130	.02490	.22940	.09020
1.969	-2.120	.00190	.01430	.08450	-.03200	.01360	.22560	.09030
1.969	.000	.00030	.01790	-.00120	.00210	.00020	.22340	.08870
1.969	2.100	.00450	.01800	-.08520	.03590	-.01290	.22790	.08790
1.969	4.220	.00350	.01940	-.16520	.06460	-.02420	.23030	.08910
1.969	6.380	.00030	.02160	-.25140	.09430	-.03650	.23150	.08760
1.969	8.520	-.00390	.02560	-.34080	.12400	-.04950	.23210	.08520
1.969	10.580	-.00850	.02840	-.43040	.15130	-.06310	.23340	.08610
1.969	.000	.00230	.01780	-.00330	.00310	-.00110	.22160	.08610
	GRADIENT	.00072	.00063	-.03918	.01509	-.00589	.00019	-.00022

RUN NO. 6/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.230	-.03970	.03280	.35520	-.10570	.04140	.21550	.04360
2.990	-8.270	-.03370	.03000	.28610	-.08600	.03270	.21350	.04410
2.990	-6.180	-.05160	.02890	.21210	-.06500	.02350	.21110	.04440
2.990	-4.120	-.03290	.03130	.14030	-.04250	.01580	.20830	.04330
2.990	-2.060	-.03800	.03590	.07030	-.02160	.00850	.20440	.04150
2.990	.000	-.03360	.03420	.00040	.00060	.00010	.20490	.04150
2.990	2.050	-.03480	.03570	-.07330	.02520	-.00870	.20400	.04320
2.990	4.110	-.03040	.03260	-.14120	.04590	-.01600	.20890	.04360
2.990	6.220	-.02650	.03040	-.21120	.06610	-.02440	.21140	.04340
2.990	8.250	-.02810	.03100	-.28530	.08650	-.03320	.21250	.04370
2.990	10.240	-.03150	.03490	-.35830	.10700	-.04200	.21440	.04330
	GRADIENT	.00040	.00012	-.03435	.01087	-.00393	.00004	.00011

MS56(IA1) NAR ATP BL LV (O1)(T3)(S1) (R77007) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	3.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 9/ 0 RN/L = 4.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.060	-.05610	.03980	.30580	-.10640	.03190	.20380	.00940
4.959	-8.140	-.04980	.04010	.23960	-.07660	.02340	.19670	.01010
4.959	-6.090	-.05300	.04130	.17520	-.04730	.01680	.19010	.01000
4.959	-4.070	-.05360	.04370	.11870	-.02620	.01100	.18420	.00980
4.959	-2.040	-.05500	.04540	.06030	-.01030	.00500	.18260	.01000
4.959	.000	-.05690	.04790	.00350	.00010	.00070	.18140	.00930
4.959	2.030	-.05270	.04590	-.05830	.01100	-.00550	.18240	.00980
4.959	4.050	-.04790	.04170	-.11340	.02440	-.01110	.18410	.01020
4.959	6.110	-.04850	.04180	-.17000	.04580	-.01710	.18800	.01090
4.959	8.110	-.04530	.04160	-.23440	.07510	-.02420	.19360	.01110
4.959	10.060	-.04230	.04150	-.30380	.10560	-.03290	.20060	.01070
	GRADIENT	.00067	-.00017	-.02870	.00603	-.00269	-.00002	.00003

M556(IA1) NAR ATP BL LV (O2)(T3)(S1) (R77008) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 4.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 56/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.602	-10.580	-.74570	.26800	.05660	-.02390	.00520	.13270	.12870
.602	-8.580	-.62460	.23620	.05720	-.02290	.00520	.13550	.13110
.602	-6.480	-.49800	.19910	.05300	-.02270	.00540	.14670	.12180
.602	-4.370	-.36200	.16320	.04540	-.01930	.00500	.14900	.11860
.602	-2.280	-.26720	.13010	.04590	-.01870	.00590	.15310	.11370
.602	-.200	-.16240	.10200	.04660	-.01740	.00690	.15080	.11290
.602	1.890	-.04110	.06450	.04370	-.01570	.00760	.14510	.11160
.602	3.950	.07350	.02730	.04210	-.01400	.00780	.14000	.11170
.602	6.100	.19320	-.01270	.03590	-.01000	.00820	.13910	.10530
.602	8.190	.31320	-.05120	.03430	-.00910	.00930	.13000	.10440
.602	10.140	.42290	-.08120	.03120	-.00760	.00960	.12410	.10000
.602	-.200	-.15810	.09840	.04660	-.01800	.00690	.15060	.11460
	GRADIENT	.05464	-.01621	-.00042	.00065	.00035	-.00125	-.00076

RUN NO. 55/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-10.910	-.78680	.26890	.04870	-.02050	.00470	.15760	.13700
.803	-8.840	-.65230	.23620	.05140	-.02140	.00430	.16180	.13530
.803	-6.680	-.52140	.20320	.04960	-.02070	.00430	.16020	.13670
.803	-4.500	-.39340	.16870	.04770	-.02050	.00490	.16270	.13300
.803	-2.350	-.27620	.13910	.04750	-.02020	.00530	.15850	.13650
.803	-.220	-.16290	.10780	.04430	-.01710	.00580	.15590	.13320
.803	1.900	-.04660	.06870	.04230	-.01580	.00640	.15230	.13030
.803	4.040	.08150	.02730	.03860	-.01230	.00670	.15370	.12420
.803	6.210	.20250	-.00890	.03380	-.00940	.00670	.14840	.12100
.803	8.350	.33250	-.05020	.03470	-.00960	.00820	.14170	.11740
.803	10.360	.45050	-.08540	.03530	-.00920	.00850	.13400	.11480
.803	-.210	-.15670	.10580	.04200	-.01600	.00560	.15380	.13590
	GRADIENT	.05529	-.01656	-.00110	.00097	.00022	-.00113	-.00111

MS56(IA1) NAR ATP BL LV (O2)(T3)(S1) (R77008) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 4.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 54/ 0 RN/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-11.050	-.79740	.26950	.05310	-.02340	.00580	.17870	.15900
.903	-8.950	-.66390	.23800	.05480	-.02390	.00530	.18450	.15420
.903	-6.740	-.52030	.20540	.05250	-.02370	.00460	.18400	.15260
.903	-4.560	-.39070	.17130	.05170	-.02330	.00530	.18470	.15050
.903	-2.390	-.26510	.13720	.04880	-.02190	.00490	.18560	.14790
.903	-.210	-.15200	.10500	.04870	-.02110	.00510	.18110	.14870
.903	1.940	-.02510	.06480	.04070	-.01600	.00570	.17730	.14490
.903	4.100	.10190	.02080	.04070	-.01510	.00640	.17290	.14190
.903	6.300	.23390	-.02430	.03740	-.01120	.00670	.16450	.13810
.903	8.440	.36390	-.06700	.03530	-.01000	.00680	.15590	.13510
.903	10.510	.48650	-.10100	.03740	-.00960	.00760	.14720	.13400
.903	-.200	-.14530	.10270	.04580	-.01970	.00490	.18170	.14560
	GRADIENT	.05659	-.01724	-.00139	.00103	.00014	-.00147	-.00093

RUN NO. 53/ 0 RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.001	-11.130	-.86690	.34380	.05710	-.02800	.00650	.24560	.19440
1.001	-9.010	-.71450	.29930	.05790	-.02820	.00590	.25150	.18650
1.001	-6.780	-.56360	.25580	.05690	-.02820	.00610	.25080	.18160
1.001	-4.580	-.42720	.21410	.06130	-.02980	.00670	.25010	.17860
1.001	-2.390	-.28610	.16590	.05730	-.02780	.00630	.24990	.17330
1.001	-.180	-.16060	.12990	.05570	-.02690	.00650	.24590	.17320
1.001	1.970	-.03260	.08310	.05220	-.02330	.00680	.23740	.17020
1.001	4.160	.10120	.03720	.04990	-.01940	.00690	.23600	.16490
1.001	6.400	.24520	-.01720	.04280	-.01400	.00680	.22450	.15860
1.001	8.550	.38630	-.06980	.04430	-.01510	.00790	.21830	.15220
1.001	10.600	.52250	-.11900	.04090	-.01120	.00830	.20920	.14880
1.001	-.180	-.15370	.12610	.05530	-.02620	.00650	.24410	.17280
	GRADIENT	.06000	-.01999	-.00128	.00116	.00004	-.00186	-.00140

M556(IA1) NAR ATP BL LV (O2)(T3)(S1) (R77008) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 4.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 52/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-11.380	-.85340	.28480	.04140	-.01910	.00560	.26830	.15910
1.199	-9.180	-.68710	.24680	.04040	-.01830	.00480	.26960	.15580
1.199	-6.900	-.53660	.21410	.04090	-.01780	.00400	.26870	.15310
1.199	-4.640	-.39120	.17780	.03780	-.01340	.00290	.26820	.15280
1.199	-2.410	-.25860	.14310	.03510	-.01050	.00270	.26760	.15000
1.199	-.190	-.12760	.10640	.03100	-.00560	.00280	.26640	.14910
1.199	2.040	.00550	.06670	.03000	-.00430	.00440	.25880	.14800
1.199	4.280	.14870	.01760	.02970	-.00200	.00520	.25380	.14780
1.199	6.510	.28250	-.02510	.02850	-.00070	.00490	.25010	.14390
1.199	8.700	.40580	-.06030	.02840	-.00200	.00520	.24280	.14200
1.199	10.820	.52540	-.08440	.02790	-.00090	.00600	.23580	.14000
1.199	-.160	-.12220	.10500	.03160	-.00540	.00290	.26570	.15000
	GRADIENT	.06029	-.01780	-.00096	.00130	.00028	-.00169	-.00054

M556(IA1) NAR ATP BL LV (O2)(T3)(S1) (R77009) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	4.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 57/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.604	-10.090	-.03380	.02340	.37040	-.15830	.05690	.12260	.13360
.604	-8.180	-.04530	.03740	.30680	-.13240	.05000	.12360	.13190
.604	-6.140	-.05900	.04940	.23790	-.10430	.04080	.13070	.12530
.604	-4.080	-.06610	.06040	.16270	-.07210	.02980	.13810	.11980
.604	-2.060	-.08130	.07250	.09080	-.03910	.01720	.14500	.11480
.604	-.020	-.08400	.07880	.01520	-.00580	.00450	.14800	.11570
.604	2.020	-.07970	.08000	-.05830	.02570	-.00810	.14970	.11350
.604	4.040	-.08160	.07980	-.13360	.06040	-.02110	.14380	.11730
.604	6.140	-.07800	.07730	-.21280	.09500	-.03370	.13810	.12400
.604	8.140	-.06930	.07170	-.28250	.12450	-.04430	.13130	.12990
.604	10.120	-.05250	.06050	-.34770	.14930	-.05350	.12600	.13730
.604	.000	-.07510	.07580	.01290	-.00540	.00370	.14520	.11710
	GRADIENT	-.00145	.00229	-.03650	.01623	-.00625	.00079	-.00031

RUN NO. 58/ 0 RN/L = 9.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.220	-.04780	.04230	.39600	-.16930	.06120	.13400	.15190
.802	-8.260	-.05590	.05190	.32970	-.14700	.05260	.13840	.14530
.802	-6.200	-.06840	.06580	.25770	-.11780	.04270	.14530	.14000
.802	-4.140	-.07750	.07430	.17910	-.08290	.03150	.14510	.13850
.802	-2.070	-.08630	.08390	.09680	-.04290	.01770	.14940	.13500
.802	.000	-.09560	.09050	.01420	-.00660	.00380	.15640	.13010
.802	2.040	-.09260	.09150	-.06830	.03140	-.01050	.15770	.12960
.802	4.100	-.09100	.08990	-.14930	.06960	-.02430	.15560	.13070
.802	6.210	-.07950	.08400	-.22940	.10690	-.03740	.15310	.13390
.802	8.210	-.06820	.07540	-.30020	.13680	-.04790	.14820	.14000
.802	10.190	-.05200	.06460	-.37400	.16490	-.05770	.14170	.14830
.802	-.010	-.08930	.08960	.01410	-.00570	.00240	.15500	.13330
	GRADIENT	-.00162	.00189	-.03992	.01842	-.00679	.00142	-.00102

M556(IA1) NAR ATP BL LV (O2)(T3)(S1) (R77009) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.6200 IN.	ALPHA =	.000	CONFIG =	4.000
LREF =	5.3120 IN.	YMRP =	.0000 IN.	PHI =	80.000	ORBINC =	.000
BREF =	5.3120 IN.	ZMRP =	.0000 IN.	RUDDER =	.000	AILRON =	.000
SCALE =	.0040						

PARAMETRIC DATA

RUN NO. 59/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.250	-.05650	.04330	.40730	-.17730	.06290	.15910	.16240
.901	-8.290	-.05870	.05320	.33840	-.15380	.05530	.16430	.15480
.901	-6.220	-.07350	.06850	.26030	-.12090	.04410	.16800	.15190
.901	-4.140	-.08410	.07850	.16270	-.08520	.03190	.17130	.14810
.901	-2.080	-.08530	.08450	.10200	-.04710	.01800	.17610	.14560
.901	-.010	-.09190	.09210	.01460	-.00710	.00340	.17980	.14330
.901	2.050	-.09600	.09590	-.07030	.03270	-.01150	.17940	.14340
.901	4.130	-.08920	.09250	-.15590	.07370	-.02660	.17920	.14290
.901	6.230	-.08740	.08950	-.24110	.11460	-.04080	.17530	.14610
.901	8.240	-.06530	.07610	-.31620	.14840	-.05170	.17180	.15280
.901	10.220	-.05740	.06850	-.38820	.17210	-.05990	.16760	.15770
.901	-.010	-.08870	.09180	.01580	-.00690	.00220	.18240	.14270
	GRADIENT	-.00101	.00190	-.04110	.01924	-.00709	.00092	-.00061

RUN NO. 60/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.001	-10.270	-.05830	.06350	.44620	-.20880	.07480	.23210	.17400
1.001	-8.310	-.06590	.07430	.36520	-.17590	.06330	.23670	.17010
1.001	-6.230	-.07940	.08560	.27990	-.13800	.04970.	.23290	.16810
1.001	-4.140	-.08720	.09600	.19290	-.09500	.03420	.24100	.16650
1.001	-2.070	-.09660	.10540	.10110	-.05040	.01790	.24460	.16460
1.001	.000	-.10140	.11060	.00910	-.00530	.00250	.24230	.16640
1.001	2.060	-.10120	.11140	-.08690	.04260	-.01440	.24090	.16550
1.001	4.130	-.09660	.11090	-.17850	.08900	-.03110	.24190	.16690
1.001	6.240	-.08950	.10660	-.27080	.13470	-.04780	.23850	.16440
1.001	8.300	-.07350	.09780	-.35690	.17330	-.06160	.24060	.16680
1.001	10.260	-.07160	.09070	-.44420	.21040	-.07420	.23460	.17110
1.001	.000	-.09900	.10860	.00720	-.00410	.00090	.23890	.16410
	GRADIENT	-.00113	.00173	-.04503	.02230	-.00788	-.00009	.00008

MS56(IA1) NAR ATP BL LV (C2)(T3)(S1) (R77009) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	4.000
PHI =	60.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 61/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.201	-10.400	-.05320	.05460	.42280	-.17170	.07220	.25910	.15630
1.201	-8.410	-.06260	.06780	.34330	-.14370	.06090	.26090	.15350
1.201	-6.320	-.07280	.08060	.25910	-.11070	.04830	.26000	.15350
1.201	-4.210	-.08570	.09500	.17190	-.07290	.03250	.26030	.15400
1.201	-2.090	-.09550	.10830	.08760	-.03680	.01640	.26080	.15450
1.201	.000	-.09990	.11720	.00190	.00100	.00170	.26090	.15540
1.201	2.080	-.09820	.11610	-.08510	.03850	-.01460	.26240	.15310
1.201	4.170	-.09450	.11220	-.16990	.07550	-.03060	.26590	.15070
1.201	6.310	-.08220	.10270	-.26050	.11410	-.04640	.26420	.15150
1.201	8.380	-.07130	.09290	-.34450	.14700	-.06050	.26550	.15210
1.201	10.410	-.06510	.08590	-.42680	.17480	-.07350	.26500	.15290
1.201	.000	-.10340	.11860	-.00250	.00280	-.00010	.26120	.15460
	GRADIENT	-.00097	.00202	-.04091	.01778	-.00751	.00061	-.00038

M556(IA1) NAR ATP BL LV (O1)(T2)(S1) (R77010) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 7.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 104/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.930	-.73430	.26540	.04890	-.02400	.00470	.20270	.15480
.901	-8.840	-.59600	.22740	.04860	-.02320	.00460	.20610	.15190
.901	-6.650	-.45950	.19080	.05300	-.02350	.00520	.21130	.14630
.901	-4.480	-.32950	.15110	.05350	-.02560	.00570	.21360	.14300
.901	-2.330	-.21310	.11790	.04780	-.02280	.00550	.21290	.13910
.901	-.160	-.09990	.08280	.04570	-.02250	.00570	.20290	.13570
.901	1.950	.03060	.01910	.04290	-.02170	.00620	.19230	.12920
.901	4.050	.17240	-.06940	.04400	-.01930	.00620	.18590	.12720
.901	6.240	.31060	-.12570	.03890	-.01550	.00600	.18320	.12470
.901	8.390	.43610	-.17010	.03900	-.01430	.00640	.17520	.12300
.901	10.420	.55240	-.20500	.03820	-.01210	.00600	.17170	.12060
.901	-.150	-.09400	.08200	.04480	-.02110	.00580	.21230	.13530
	GRADIENT	.05844	-.02526	-.00112	.00064	.00008	-.00356	-.00194

RUN NO. 105/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-11.030	-.83620	.34650	.05300	-.02740	.00600	.26660	.18850
.998	-8.940	-.68820	.30060	.05410	-.02810	.00640	.27140	.18240
.998	-6.720	-.53770	.25370	.05370	-.02780	.00600	.27140	.17680
.998	-4.530	-.39390	.20550	.05670	-.02810	.00660	.27160	.17190
.998	-2.340	-.25950	.15980	.05290	-.02530	.00640	.27230	.16640
.998	-.150	-.13770	.12320	.04920	-.02330	.00650	.26240	.16400
.998	1.990	.01650	.04530	.04310	-.01920	.00580	.25010	.15740
.998	4.100	.17410	-.04710	.04200	-.01700	.00590	.24730	.15170
.998	6.300	.33340	-.12690	.04280	-.01720	.00680	.23730	.14730
.998	8.480	.47450	-.18260	.04430	-.01730	.00700	.23460	.14350
.998	10.560	.60760	-.22890	.04550	-.01630	.00780	.22620	.14150
.998	-.140	-.13070	.12000	.04880	-.02240	.00640	.26220	.16410
	GRADIENT	.06537	-.02865	-.00182	.00131	-.00009	-.00328	-.00229

MSS6(IA1) NAR ATP BL LV (O1)(T2)(S1) (R77010) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 3.3120 IN. YMRP = .0000 IN.
BREF = 3.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 7.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 106/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-11.260	-.79590	.27580	.04380	-.02300	.00580	.31220	.15610
1.199	-9.060	-.61920	.22740	.04120	-.02130	.00510	.31640	.15430
1.199	-6.790	-.46790	.19100	.03900	-.01980	.00440	.31920	.15130
1.199	-4.540	-.33100	.15180	.03580	-.01590	.00360	.31900	.15070
1.199	-2.350	-.20140	.11220	.03480	-.01420	.00370	.31770	.14960
1.199	-.150	-.06750	.06460	.03380	-.01180	.00430	.31470	.14810
1.199	2.050	.07370	.00830	.03060	-.00930	.00480	.30710	.14500
1.199	4.220	.21210	-.05530	.03050	-.00870	.00450	.30160	.14290
1.199	6.470	.33750	-.10150	.02670	-.00530	.00440	.29930	.13840
1.199	8.640	.45420	-.13600	.02500	-.00370	.00510	.29390	.13550
1.199	10.700	.56730	-.16220	.02400	-.00190	.00580	.28610	.13640
1.199	-.120	-.05900	.06160	.03220	-.01150	.00430	.31620	.14750
	GRADIENT	.06210	-.02363	-.00068	.00088	.00013	-.00207	-.00092

RUN NO. 176/ 0 RN/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-11.320	-.79130	.26720	.05670	-.03380	.00790	.32160	.12920
1.462	-.170	-.04450	.03660	.04460	-.02200	.00720	.32970	.12170
1.462	10.750	.53040	-.12450	.03920	-.01240	.00640	.30920	.11610
1.462	-4.590	-.28910	.11450	.04720	-.02600	.00730	.32950	.12350
1.462	-2.340	-.16350	.07710	.04420	-.02240	.00720	.33120	.12340
1.462	-.140	-.03830	.03460	.04360	-.02190	.00710	.32980	.12170
1.462	2.030	.08600	-.01420	.04510	-.01940	.00710	.32200	.12270
1.462	4.220	.20430	-.05560	.04140	-.01520	.00620	.32630	.12040
1.462	6.480	.32040	-.08650	.03930	-.01320	.00600	.32580	.11900
1.462	8.660	.43040	-.10960	.03820	-.01160	.00610	.31920	.11680
1.462	10.750	.53410	-.12540	.03860	-.01130	.00590	.30940	.11580
1.462	-.130	-.03410	.03350	.04360	-.02140	.00690	.33050	.12150
	GRADIENT	.05358	-.01604	-.00048	.00090	-.00007	-.00140	-.00048

M556(IA1) NAR ATP BL LV (O1)(T2)(S1) (R77010) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 7.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 156/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-11.370	-.69330	.19150	.02640	-.01300	.00270	.28890	.09240
1.966	-9.190	-.53680	.14160	.03560	-.01790	.00320	.28400	.09210
1.966	-6.910	-.38610	.10080	.03620	-.01510	.00330	.28360	.09110
1.966	-4.640	-.25080	.06710	.03500	-.01410	.00350	.28280	.08890
1.966	-2.400	-.13240	.03970	.03450	-.01330	.00360	.28410	.08940
1.966	-.160	-.02160	.01750	.03410	-.01200	.00400	.28470	.08870
1.966	2.060	.08080	-.00550	.03470	-.01160	.00430	.28050	.08650
1.966	4.260	.17990	-.02840	.03410	-.01080	.00460	.27860	.08890
1.966	6.530	.29080	-.04630	.03500	-.00920	.00490	.27890	.09040
1.966	8.800	.40120	-.06100	.03850	-.00740	.00520	.27640	.08930
1.966	10.940	.50000	-.07050	.04650	-.01390	.00690	.27030	.08870
1.966	-.130	-.01700	.01690	.03360	-.01180	.00370	.28120	.08610
	GRADIENT	.04828	-.01061	-.00007	.00037	.00013	-.00054	-.00013

RUN NO. 11/ 0 RN/L = 4.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.340	-.46480	.10200	.02420	-.00830	.00090	.25680	-.00050
4.959	-8.390	-.38120	.08680	.02300	-.00760	.00090	.24270	.00110
4.959	-6.330	-.29790	.07080	.02490	-.00860	.00100	.22990	.00370
4.959	-4.260	-.21760	.06060	.02200	-.00770	.00100	.22020	.00590
4.959	-2.200	-.14010	.05440	.02560	-.00730	.00120	.21610	.00700
4.959	-.150	-.06950	.04570	.02270	-.00630	.00110	.20610	.00830
4.959	1.890	.00760	.03800	.02470	-.00660	.00170	.19700	.00840
4.959	3.920	.08470	.02330	.02500	-.00670	.00200	.18580	.00910
4.959	6.010	.16480	.00530	.02210	-.00540	.00140	.17750	.01020
4.959	8.040	.24220	-.00690	.02260	-.00330	.00260	.17320	.01010
4.959	10.020	.31920	-.01850	.02290	-.00410	.00250	.16690	.01210
	GRADIENT	.03679	-.00445	.00025	.00013	.00012	-.00430	.00038

MS56(IA1) NAR ATP BL LV (O1)(T2)(S1) (R77011) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 7.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 109/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.200	.00320	.00370	.41630	-.19860	.06810	.17800	.15880
.899	-8.240	-.00020	.00980	.34140	-.17190	.05860	.18040	.15080
.899	-6.180	-.01090	.02230	.26600	-.13880	.04670	.18830	.14250
.899	-4.110	-.02010	.03520	.18280	-.09980	.03390	.19090	.13590
.899	-2.060	-.03120	.04950	.09400	-.05370	.01930	.19510	.13380
.899	.010	-.03740	.05860	.00130	-.00670	.00380	.19970	.13100
.899	2.070	-.03400	.05860	-.08730	.03850	-.01220	.19960	.13220
.899	4.120	-.02800	.05570	-.17610	.08580	-.02790	.19960	.13450
.899	6.210	-.01420	.04500	-.25750	.12780	-.04170	.19020	.13680
.899	8.260	-.00990	.03860	-.33840	.16890	-.05580	.19880	.14430
.899	10.240	-.00550	.03300	-.40920	.19580	-.06510	.19180	.15310
.899	-.010	-.03530	.05810	.01210	-.00510	.00270	.20290	.12990
	GRADIENT	-.00090	.00243	-.04367	.02251	-.00753	.00106	-.00021

RUN NO. 108/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.997	-10.250	-.02150	.04920	.46670	-.23070	.08100	.24490	.18050
.997	-8.290	-.03110	.05680	.37530	-.19040	.06790	.25160	.17230
.997	-6.200	-.04580	.06940	.28410	-.14830	.05280	.25300	.16610
.997	-4.160	-.05940	.08250	.19030	-.09910	.03590	.25490	.16400
.997	-2.080	-.07200	.09530	.09590	-.04900	.01930	.26060	.16020
.997	.000	-.07630	.10270	.00690	-.00330	.00250	.26110	.15970
.997	2.060	-.07640	.10190	-.08810	.04530	-.01450	.26630	.15740
.997	4.100	-.06490	.09370	-.17860	.09590	-.03220	.26050	.15860
.997	6.250	-.05440	.08510	-.27950	.14820	-.04920	.26180	.16130
.997	8.260	-.04110	.07500	-.36970	.19300	-.06440	.25670	.16650
.997	10.260	-.03410	.07270	-.46350	.23520	-.07910	.25190	.17350
.997	.000	-.07240	.10100	.00800	-.00410	.00200	.25950	.15780
	GRADIENT	-.00075	.00141	-.04462	.02344	-.00823	.00082	-.00066

M556(IA1) NAR ATP BL LV (O1)(T2)(S1) (R77011) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 7.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 107/ 0 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-10.340	.00230	.01580	.42310	-.18630	.07680	.30170	.15500
1.199	-8.370	-.00550	.02760	.34240	-.15360	.06440	.30550	.15200
1.199	-6.270	-.01410	.03840	.25640	-.11600	.05020	.30940	.14920
1.199	-4.170	-.02680	.05240	.16890	-.07550	.03380	.31250	.14750
1.199	-2.100	-.03320	.06290	.08270	-.03590	.01810	.31400	.14670
1.199	.000	-.03740	.07000	-.00100	.00240	.00140	.31540	.14690
1.199	2.090	-.03740	.07010	-.08940	.04440	-.01590	.31460	.14790
1.199	4.170	-.03090	.06460	-.17440	.08550	-.03320	.31510	.14660
1.199	6.350	-.01910	.05520	-.26340	.12700	-.05030	.31270	.14730
1.199	8.340	-.01100	.04630	-.34820	.16350	-.06510	.31140	.14760
1.199	10.350	-.00560	.04160	-.43270	.19490	-.07850	.30820	.14960
1.199	.000	-.04060	.07090	-.00550	.00480	-.00020	.31510	.14770
	GRADIENT	-.00059	.00151	-.04114	.01928	-.00805	.00028	-.00003

RUN NO. 173/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.380	.00500	.00000	.42740	-.18910	.07320	.31800	.12600
1.462	-.010	.00290	.01900	.00660	-.00520	.00280	.33310	.11800
1.462	10.370	.00860	.01490	-.41820	.18050	-.07040	.32370	.12130
1.462	-4.190	.00460	.01100	.17250	-.08390	.03310	.32570	.12340
1.462	-2.070	.00480	.01560	.08910	-.04450	.01770	.33020	.12050
1.462	.000	.00390	.01870	.00550	-.00480	.00220	.33250	.11850
1.462	2.080	.00200	.02090	-.08110	.03630	-.01410	.33470	.11860
1.462	4.180	.00520	.01910	-.16370	.07540	-.03010	.33390	.12000
1.462	6.290	.01020	.01500	-.24870	.11400	-.04540	.33150	.12010
1.462	8.370	.01060	.01390	-.33090	.14770	-.05860	.32730	.12040
1.462	10.370	.00750	.01450	-.41920	.18010	-.07130	.32460	.12140
1.462	.000	.00290	.01870	.00340	-.00350	.00080	.33250	.11890
	GRADIENT	.00028	.00017	-.04064	.01825	-.00717	-.00020	-.00004

MS56(IA1) NAR ATP BL LV (01)(T2)(31) (R77011) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 7.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 155/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.970	-10.510	-.01920	.01860	.42700	-.16010	.06170	.29100	.08770
1.970	-8.510	-.01040	.01660	.33590	-.12400	.04620	.28770	.08700
1.970	-6.370	-.00410	.01310	.24630	-.09340	.03550	.28560	.08850
1.970	-4.220	.00160	.01190	.16310	-.06260	.02420	.29200	.08860
1.970	-2.130	.00460	.01430	.08120	-.03140	.01270	.28600	.08950
1.970	.000	.00790	.01540	-.00070	.00170	-.00020	.28740	.08720
1.970	2.100	.00740	.01720	-.08160	.03430	-.01270	.28540	.08840
1.970	4.210	.00750	.01720	-.16220	.06490	-.02370	.28830	.08830
1.970	6.390	.00450	.01880	-.25430	.09910	-.03670	.28790	.08700
1.970	8.510	.00220	.02080	-.34140	.12880	-.04920	.29080	.08580
1.970	10.540	-.00250	.02330	-.43490	.16430	-.06310	.28820	.08730
1.970	.000	.00610	.01530	-.00470	.00360	-.00170	.28470	.08380
	GRADIENT	.00069	.00064	-.03857	.01521	-.00575	-.00038	-.00008

RUN NO. 10/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.070	-.04260	.03640	.30590	-.10120	.03000	.22330	.01140
4.959	-8.150	-.03940	.03460	.24780	-.07390	.02320	.21350	.01200
4.959	-6.100	-.04310	.03500	.18320	-.04800	.01610	.20410	.01270
4.959	-4.070	-.05350	.04210	.11860	-.02470	.01010	.20000	.01260
4.959	-2.030	-.04900	.04250	.06020	-.01370	.00510	.19800	.01260
4.959	.000	-.05060	.04420	.00190	.00000	.00020	.19920	.01180
4.959	2.050	-.04930	.04260	-.06130	.01470	-.00550	.19790	.01250
4.959	4.050	-.05100	.04580	-.11650	.02540	-.01070	.19710	.01340
4.959	6.140	-.05620	.03610	-.18110	.04670	-.01720	.20170	.01350
4.959	8.150	-.03670	.03620	-.24570	.07300	-.02450	.21030	.01380
4.959	10.070	-.03020	.03500	-.30670	.10170	-.03070	.21550	.01400
	GRADIENT	.00023	.00037	-.02912	.00633	-.00257	-.00029	.00007

M556(1A1) NAR ATP BL LV (O2)(T2)(S1) (R77012) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 3.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 47/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.604	-10.580	-.74340	.27470	.05060	-.02220	.00440	.14950	.12730
.604	-8.570	-.61540	.23830	.04990	-.02260	.00440	.15060	.12700
.604	-6.480	-.48900	.19910	.04920	-.02170	.00470	.15840	.12150
.604	-4.360	-.36880	.16250	.05190	-.02370	.00590	.16100	.11850
.604	-2.280	-.26440	.13220	.05130	-.02280	.00650	.16090	.11740
.604	-.190	-.15350	.09830	.04870	-.02150	.00720	.15850	.11390
.604	1.880	-.03900	.05800	.04780	-.02000	.00800	.15450	.10980
.604	3.970	.07700	.01810	.04400	-.01820	.00800	.15130	.10690
.604	6.100	.20230	-.02210	.04120	-.01630	.00960	.14490	.10460
.604	8.160	.31020	-.05630	.03950	-.01560	.01050	.13680	.10450
.604	10.130	.42860	-.09530	.03220	-.01280	.01010	.13030	.10170
.604	-.190	-.14660	.09500	.04520	-.01910	.00600	.16020	.11310
	GRADIENT	.05365	-.01743	-.00093	.00066	.00027	-.00124	-.00148

RUN NO. 46/ 0 RN/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.950	-.77980	.29710	.04590	-.02250	.00450	.22140	.15710
.902	-8.860	-.64440	.26480	.04920	-.02250	.00460	.22610	.15340
.902	-6.680	-.51180	.22800	.05090	-.02150	.00460	.22830	.14800
.902	-4.480	-.38250	.19140	.05200	-.02310	.00490	.22930	.14570
.902	-2.320	-.26290	.15780	.05040	-.02320	.00550	.22950	.13960
.902	-.170	-.15180	.12360	.04950	-.02280	.00580	.21880	.13990
.902	1.930	-.02680	.06240	.04460	-.02030	.00580	.21320	.13260
.902	4.020	.12300	-.03540	.04110	-.01690	.00560	.20150	.13110
.902	6.190	.25310	-.08340	.03920	-.01560	.00600	.19660	.12750
.902	8.350	.38350	-.13060	.04190	-.01560	.00660	.18590	.12790
.902	10.400	.49920	-.16520	.03940	-.01240	.00660	.18360	.12500
.902	-.170	-.14460	.11770	.04680	-.02130	.00560	.21410	.13920
	GRADIENT	.05866	-.02579	-.00130	.00072	.00008	-.00338	-.00170

M556(IA1) NAR ATP BL LV (O2) (T2) (S1) (R77012) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 5.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 45/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.000	-11.060	-.86600	.37000	.05080	-.02730	.00580	.28780	.19130
1.000	-8.950	-.71660	.32530	.05480	-.02870	.00570	.29170	.18540
1.000	-6.740	-.57370	.28050	.05890	-.03000	.00640	.29470	.17970
1.000	-4.520	-.43110	.23340	.05890	-.02970	.00690	.29710	.17200
1.000	-2.370	-.29510	.18480	.05550	-.02820	.00650	.29700	.16420
1.000	-.170	-.17400	.14790	.05120	-.02570	.00650	.28570	.16460
1.000	1.970	-.02860	.07680	.04660	-.02140	.00580	.27020	.16020
1.000	4.100	.12870	-.01580	.04360	-.01840	.00570	.26600	.15290
1.000	6.290	.27510	-.08520	.04280	-.01690	.00630	.25330	.15030
1.000	8.450	.41600	-.13940	.04530	-.01830	.00700	.25220	.14530
1.000	10.500	.54360	-.18400	.04370	-.01520	.00780	.24280	.14380
1.000	-.160	-.16780	.14620	.05220	-.02530	.00630	.28500	.16370
	GRADIENT	.06431	-.02807	-.00183	.00136	-.00014	-.00412	-.00195

RUN NO. 44/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.198	-11.270	-.62290	.29740	.04810	-.02460	.00620	.33270	.15750
1.198	-9.070	-.64580	.24880	.04390	-.02280	.00560	.33620	.15540
1.198	-6.810	-.50430	.21730	.04380	-.02290	.00510	.33940	.15290
1.198	-4.550	-.37260	.18560	.03910	-.01800	.00360	.33760	.15460
1.198	-2.370	-.24620	.14700	.03570	-.01490	.00320	.33730	.15070
1.198	-.180	-.12480	.10860	.03300	-.01200	.00330	.33510	.14840
1.198	2.030	.01120	.05810	.02950	-.00830	.00440	.32190	.14840
1.198	4.200	.14860	-.00540	.03160	-.00850	.00510	.31820	.14370
1.198	6.400	.28590	-.06150	.02880	-.00660	.00490	.31270	.14060
1.198	8.600	.40840	-.10050	.02770	-.00490	.00510	.30700	.13740
1.198	10.700	.52550	-.12990	.02720	-.00320	.00590	.29700	.13680
1.198	-.140	-.11740	.10610	.03370	-.01140	.00350	.33390	.14880
	GRADIENT	.05935	-.02150	-.00097	.00117	.00019	-.00248	-.00110

M556(IA1) NAR ATP BL LV (O2)(T2)(S1) (R77013) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 5.000
PHI = 60.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 40/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.070	-.04010	.03050	.36960	-.17070	.05730	.12930	.13520
.600	-8.150	-.05170	.04020	.30470	-.14450	.05040	.13460	.12870
.600	-6.120	-.06080	.05090	.23830	-.11460	.04120	.14370	.12080
.600	-4.070	-.06950	.05990	.16900	-.08130	.03030	.14820	.11850
.600	-2.040	-.07360	.06840	.09050	-.04260	.01760	.15670	.11240
.600	.000	-.08250	.07580	.01640	-.00700	.00420	.15880	.11390
.600	2.040	-.08500	.07860	-.06360	.03070	-.00920	.16010	.11300
.600	4.030	-.07770	.07670	-.13880	.06760	-.02270	.15430	.11600
.600	6.140	-.07060	.07180	-.21610	.10640	-.03560	.15160	.11760
.600	8.130	-.05960	.06630	-.27870	.13530	-.04500	.14300	.12690
.600	10.070	-.04660	.05760	-.34390	.16170	-.05360	.13750	.13350
.600	.000	-.07340	.07280	.01750	-.00740	.00420	.16050	.11130
	GRADIENT	-.00138	.00216	-.03795	.01830	-.00655	.00077	-.00022

RUN NO. 41/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-10.210	-.05860	.04740	.41440	-.19570	.06420	.19300	.16330
.897	-8.240	-.06100	.05250	.34350	-.17170	.05560	.19980	.15210
.897	-6.180	-.06900	.06160	.26050	-.13460	.04330	.20410	.14460
.897	-4.090	-.08490	.07630	.17580	-.09460	.03080	.20770	.13660
.897	-2.040	-.09450	.09120	.08860	-.04930	.01680	.20990	.13640
.897	.010	-.09550	.10230	.00390	-.00680	.00340	.21550	.13520
.897	2.060	-.09910	.10340	-.08390	.03770	-.01200	.21800	.13390
.897	4.120	-.09330	.09810	-.17310	.08350	-.02720	.21600	.13530
.897	6.220	-.07560	.08800	-.25800	.12630	-.04060	.20970	.14060
.897	8.240	-.06450	.07600	-.32680	.16250	-.05280	.21170	.14690
.897	10.210	-.05900	.07140	-.39880	.18850	-.06160	.20610	.15540
.897	.000	-.10600	.10570	.00780	-.00280	.00130	.22020	.13550
	GRADIENT	-.00104	.00272	-.04241	.02160	-.00706	.00120	-.00025

MS56(IA1) NAR ATP BL LV (O2)(T2)(S1) (R77013) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	5.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 42/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.240	-.07330	.08140	.46430	-.23230	.07670	.26750	.18130
.998	-8.270	-.08430	.09120	.37990	-.19650	.06460	.27300	.17450
.998	-6.200	-.09910	.10320	.28960	-.15440	.05080	.27560	.16880
.998	-4.110	-.11160	.11490	.19580	-.10660	.03490	.27420	.16650
.998	-2.070	-.11550	.12350	.09960	-.05420	.01830	.27790	.16350
.998	.000	-.11890	.12930	.00740	-.00580	.00250	.27880	.16320
.998	2.060	-.11400	.12890	-.08920	.04560	-.01450	.28590	.15990
.998	4.110	-.10660	.12180	-.17630	.09520	-.03060	.28430	.16040
.998	6.180	-.09310	.11080	-.27170	.14580	-.04660	.27750	.16410
.998	8.260	-.07920	.10350	*-.36420	.18930	-.06190	.28150	.16910
.998	10.220	-.07000	.09920	-.45390	.22930	-.07570	.27880	.17330
.998	.000	-.11770	.12910	.00720	-.00470	.00120	.27840	.16020
	GRADIENT	.00056	.00093	-.04555	.02447	-.00796	.00137	-.00077

RUN NO. 43/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.198	-10.350	-.05530	.05780	.41330	-.17610	.07050	.31860	.15560
1.198	-8.370	-.06450	.06870	.33150	-.14460	.05880	.32440	.15190
1.198	-6.280	-.07420	.08180	.24790	-.10880	.04510	.32800	.14970
1.198	-4.170	-.08520	.09600	.16260	-.07130	.02990	.32900	.15100
1.198	-2.090	-.09350	.10850	.08190	-.03360	.01520	.32910	.15140
1.198	-.010	-.10330	.11740	.00130	.00180	.00050	.33300	.14990
1.198	2.090	-.09920	.11620	-.08350	.04050	-.01460	.33270	.14960
1.198	4.150	-.09090	.10950	-.16660	.07870	-.02990	.33430	.14710
1.198	6.260	-.08040	.10020	-.25030	.11620	-.04500	.33280	.14810
1.198	8.350	-.06480	.08990	-.33560	.15250	-.05980	.33060	.14970
1.198	10.340	-.05610	.08130	-.41860	.18340	-.07280	.32630	.15090
1.198	.000	-.10020	.11760	.00070	.00190	-.00050	.33070	.15160
	GRADIENT	-.00082	.00167	-.03957	.01797	-.00718	.00068	-.00046

M556(IA1) NAR ATP BL LV (O1)(T1)($1) (R77014) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.6200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	8.000
PHI =	60.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 86/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.850	-.73370	.25280	.05090	-.02250	.00470	.16110	.13710
.802	-8.780	-.59430	.21340	.05000	-.02200	.00450	.16350	.13590
.802	-6.610	-.46130	.17330	.05030	-.02300	.00490	.16180	.13580
.802	-4.460	-.33390	.13520	.05010	-.02330	.00530	.16310	.13340
.802	-2.320	-.21620	.10060	.05060	-.02300	.00570	.16170	.12950
.802	-.200	-.11070	.06910	.04640	-.02120	.00610	.15380	.12730
.802	1.930	.01870	.02570	.04480	-.01940	.00710	.14660	.12570
.802	4.080	.14570	-.02480	.04130	-.01770	.00700	.14340	.11980
.802	6.210	.26710	-.06840	.03840	-.01520	.00750	.14220	.11600
.802	8.350	.39190	-.11410	.03910	-.01520	.00840	.13830	.11210
.802	10.370	.51440	-.15230	.03920	-.01280	.00820	.13160	.11130
.802	-.180	-.09630	.06510	.04980	-.02270	.00640	.15050	.13110
	GRADIENT	.05599	-.01852	-.00110	.00069	.00022	-.00255	-.00145

RUN NO. 87/ 0 RN/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.930	-.73420	.25580	.04600	-.02310	.00480	.19070	.15580
.901	-8.860	-.59800	.22060	.05110	-.02420	.00490	.19220	.15330
.901	-6.650	-.45860	.18230	.05220	-.02460	.00530	.19580	.14870
.901	-4.470	-.32820	.14530	.05150	-.02370	.00530	.19770	.14310
.901	-2.340	-.21210	.11210	.05250	-.02520	.00600	.19430	.14030
.901	-.180	-.09800	.07900	.04730	-.02310	.00590	.18490	.14110
.901	1.970	.03770	.01640	.04460	-.02090	.00670	.17500	.13380
.901	4.070	.17220	-.05960	.04330	-.01830	.00600	.17530	.13090
.901	6.270	.31150	-.11120	.04330	-.01670	.00700	.16830	.12810
.901	8.420	.44160	-.15980	.04300	-.01470	.00700	.16890	.12400
.901	10.460	.55640	-.18850	.04330	-.01330	.00720	.15720	.12480
.901	-.160	-.09470	.07740	.04850	-.02280	.00640	.18310	.14120
	GRADIENT	.05846	-.02352	-.00114	.00071	.00010	-.00300	-.00144

MS96(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77014) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	8.000		
PHI =	80.000	ORBINC =	.000		
RUDDER =	.000	AILRON =	.000		

RUN NO. 89/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-11.060	-.84240	.33940	.05050	-.02640	.00600	.25550	.19000
.999	-8.960	-.69140	.29570	.05240	-.02670	.00650	.25770	.18370
.999	-6.750	-.54130	.24820	.05330	-.02690	.00610	.26030	.17670
.999	-4.550	-.39760	.20110	.05250	-.02650	.00650	.26040	.17310
.999	-2.330	-.25590	.15270	.05290	-.02560	.00640	.25550	.16850
.999	-.150	-.13180	.11580	.04670	-.02250	.00590	.24830	.16710
.999	2.000	.01780	.04720	.04180	-.01840	.00610	.23660	.16040
.999	4.150	.17290	-.03430	.04160	-.01670	.00600	.22990	.15550
.999	6.350	.33000	-.11130	.04390	-.01690	.00670	.22610	.14880
.999	8.510	.47150	-.16370	.04580	-.01700	.00750	.22380	.14660
.999	10.580	.60640	-.21390	.04410	-.01370	.00760	.21160	.14590
.999	-.140	-.12360	.11430	.04880	-.02240	.00620	.24750	.16730
	GRADIENT	.06509	-.02650	-.00151	.00123	-.00006	-.00367	-.00199

RUN NO. 88/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.200	-11.290	-.81350	.27420	.04300	-.02270	.00540	.30320	.15640
1.200	-9.090	-.62580	.22400	.04040	-.02090	.00470	.30550	.15240
1.200	-6.810	-.47190	.18670	.04020	-.01880	.00460	.30440	.15320
1.200	-4.570	-.33510	.15080	.03580	-.01540	.00350	.30570	.15100
1.200	-2.360	-.20320	.11010	.03360	-.01330	.00340	.30500	.15020
1.200	-.130	-.06840	.06430	.03150	-.01060	.00390	.30220	.14930
1.200	2.060	.07490	.00800	.03060	-.00880	.00480	.29450	.14770
1.200	4.230	.21010	-.05150	.03160	-.00890	.00490	.29090	.14480
1.200	6.440	.33470	-.09450	.02940	-.00600	.00490	.28810	.14130
1.200	8.640	.45240	-.12670	.02780	-.00420	.00550	.28260	.13830
1.200	10.750	.56960	-.15210	.02950	-.00250	.00610	.27640	.13810
1.200	-.120	-.05990	.06140	.03600	-.01190	.00470	.30230	.14860
	GRADIENT	.06214	-.02300	-.00052	.00080	.00019	-.00182	-.00068

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77014) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 177/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-11.350	-.79420	.25650	.05750	-.03430	.00710	.31520	.13000
1.462	-.150	-.04340	.03530	.04410	-.02100	.00710	.31340	.12450
1.462	10.760	.53060	-.11020	.03460	-.01110	.00650	.30410	.11670
1.462	-4.610	-.29350	.11060	.04670	-.02580	.00720	.31630	.12490
1.462	-2.350	-.16470	.07440	.04470	-.02240	.00720	.31460	.12610
1.462	-.140	-.04030	.03450	.04470	-.02120	.00710	.31410	.12410
1.462	2.040	.08510	-.00860	.04360	-.01910	.00720	.31060	.12340
1.462	4.220	.20320	-.04720	.04040	-.01560	.00630	.31260	.12140
1.462	6.520	.32360	-.07670	.03830	-.01330	.00640	.31450	.11940
1.462	8.700	.43270	-.09620	.03680	-.01090	.00650	.31140	.11890
1.462	10.790	.53120	-.10990	.03300	-.00970	.00630	.30390	.11710
1.462	-.140	-.03710	.03400	.04520	-.02100	.00730	.31520	.12340
	GRADIENT	.05364	-.01470	-.00078	.00095	-.00006	-.00076	-.00060

RUN NO. 157/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.964	-11.330	-.69240	.19700	.02970	-.01570	.00240	.31840	.07240
1.964	-9.180	-.53710	.14590	.03550	-.01830	.00300	.31870	.06970
1.964	-6.900	-.38610	.10330	.03230	-.01420	.00280	.32040	.06330
1.964	-4.640	-.25120	.06720	.03300	-.01310	.00310	.32740	.05430
1.964	-2.390	-.13210	.04100	.03250	-.01250	.00360	.33320	.04920
1.964	-.180	-.02660	.01740	.03300	-.01320	.00390	.34180	.04530
1.964	2.050	.07860	-.00700	.03220	-.01130	.00410	.33940	.03810
1.964	4.250	.17850	-.03080	.03210	-.00970	.00430	.33710	.04270
1.964	6.540	.29340	-.05110	.03310	-.00820	.00470	.34420	.03660
1.964	8.750	.39460	-.06510	.03850	-.00750	.00560	.34380	.03030
1.964	10.910	.49370	-.07520	.04760	-.01310	.00700	.34730	.02330
1.964	-.130	-.01570	.01660	.03460	-.00160	.01490	.34520	.03320
	GRADIENT	.04816	-.01098	-.00009	.00036	.00013	.00115	-.00155

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77014) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 186/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.620	-.54110	.11810	.02680	-.00970	.00170	.28390	.02730
2.990	-8.570	-.43510	.09270	.02540	-.00840	.00180	.27580	.02700
2.990	-6.460	-.32730	.06850	.02580	-.00860	.00180	.27140	.02650
2.990	-4.390	-.22490	.04790	.02530	-.00730	.00160	.27190	.02590
2.990	-2.260	-.12800	.03660	.02580	-.00650	.00220	.27230	.02600
2.990	-.150	-.04070	.03000	.02520	-.00610	.00220	.27200	.02650
2.990	1.950	.04470	.02370	.02750	-.00680	.00250	.26680	.02720
2.990	4.050	.12830	.01290	.02700	-.00500	.00270	.25750	.02990
2.990	6.180	.22320	-.00240	.03030	-.00610	.00320	.25230	.02990
2.990	8.260	.31600	-.01660	.03160	-.00740	.00360	.24740	.02890
2.990	10.260	.40300	-.03040	.03390	-.00770	.00430	.24140	.02900
2.990	-.140	-.03680	.03030	.02520	-.00630	.00220	.27150	.02680
	GRADIENT	.04169	-.00393	.00024	.00020	.00012	-.00162	.00044

RUN NO. 12/ 1 RN/L = 4.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.340	-.46170	.10330	.01950	-.00490	.00090	.27470	-.00160
4.959	-8.350	-.37490	.08320	.01670	-.00330	.00090	.25630	.00150
4.959	-6.310	-.28810	.06700	.02030	-.00370	.00130	.24590	.00390
4.959	-4.270	-.20450	.05410	.02060	-.00380	.00140	.23850	.00490
4.959	-2.220	-.12750	.04410	.01770	-.00320	.00080	.23500	.00640
4.959	-.140	-.05340	.03980	.02130	-.00400	.00120	.22790	.00750
4.959	1.900	.01740	.03410	.02000	-.00310	.00150	.21930	.00820
4.959	3.950	.08800	.02310	.01870	-.00270	.00170	.20720	.00820
4.959	6.020	.17160	.00870	.02230	-.00350	.00200	.20110	.00700
4.959	8.050	.24220	-.00380	.01940	-.00260	.00180	.19490	.00900
4.959	10.020	.31310	-.01180	.01970	-.00230	.00220	.18840	.01140
	GRADIENT	.03550	-.00350	-.00007	.00011	.00006	-.00381	.00041

M556(IA1) MAR ATP BL LV (O1)(T1)(S1) (R77015) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 93/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.800	-10.160	.00560	-.00120	.40050	-.18860	.06480	.12530	.14900
.800	-8.220	-.00090	.00910	.33310	-.16250	.05550	.12980	.14300
.800	-6.170	-.01300	.02190	.26090	-.13040	.04500	.13330	.13970
.800	-4.120	-.02180	.03160	.18530	-.09380	.03310	.13910	.13450
.800	-2.080	-.02260	.03800	.10120	-.04950	.01950	.14560	.12850
.800	-.030	-.02970	.04550	.01820	-.00880	.00480	.15280	.12370
.800	2.040	-.02790	.04630	-.07080	.03600	-.01090	.15330	.12410
.800	4.060	-.02740	.04530	-.15330	.07870	-.02570	.15040	.12540
.800	6.160	-.01940	.03990	-.23210	.11890	-.03910	.14610	.12740
.800	8.220	-.01040	.03000	-.31230	.15620	-.05000	.14290	.13410
.800	10.130	.00720	.02060	-.38270	.18530	-.06070	.13550	.14370
.800	.000	-.02340	.04350	.01200	-.00510	.00290	.15300	.12540
	GRADIENT	-.00081	.00174	-.04147	.02102	-.00725	.00148	-.00110

RUN NO. 92/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.200	-.00610	.00540	.41430	-.19820	.06770	.15930	.16350
.899	-8.240	-.01080	.01260	.34270	-.17180	.05840	.16590	.15370
.899	-6.180	-.02000	.02690	.26120	-.13510	.04610	.17280	.14480
.899	-4.100	-.02880	.04030	.17680	-.09430	.03320	.17480	.14140
.899	-2.070	-.04000	.05290	.09270	-.04960	.01850	.18360	.13590
.899	.000	-.03680	.05610	.00600	-.00630	.00390	.18440	.13330
.899	2.060	-.03000	.05370	-.08560	.03950	-.01160	.18180	.13540
.899	4.090	-.02920	.05400	-.16700	.08220	-.02720	.18410	.13680
.899	6.230	-.02350	.04760	-.25630	.12810	-.04210	.17800	.14240
.899	8.250	-.01840	.04140	-.33540	.16530	-.05420	.17230	.14820
.899	10.210	-.00970	.02970	-.40270	.19260	-.06400	.16980	.15180
.899	.000	-.03660	.05600	.00940	-.00410	.00230	.18680	.13530
	GRADIENT	.00045	.00137	-.04241	.02156	-.00736	.00082	-.00028

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77015) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 90/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.230	-.02310	.04530	.45950	-.22980	.08050	.22930	.18140
.999	-8.270	-.03170	.05400	.37300	-.19140	.06760	.23410	.17480
.999	-6.200	-.04460	.06630	.28280	-.14750	.05240	.23830	.16960
.999	-4.120	-.05930	.07970	.18730	-.09800	.03530	.24390	.16450
.999	-2.070	-.07150	.09330	.09770	-.04920	.01870	.24860	.16240
.999	.000	-.07580	.09990	.00620	-.00320	.00240	.25110	.16080
.999	2.030	-.07050	.09790	-.08590	.04430	-.01450	.25110	.15990
.999	4.110	-.06520	.09200	-.17750	.09400	-.03140	.24610	.16150
.999	6.220	-.05440	.08170	-.27650	.14580	-.04860	.24840	.16210
.999	8.240	-.04230	.07350	-.36710	.19060	-.06470	.24140	.16960
.999	10.240	-.03160	.06940	-.45480	.23150	-.07930	.23750	.17480
.999	.000	-.07470	.09840	.00310	-.00140	.00090	.24660	.16130
	GRADIENT	-.00052	.00142	-.04442	.02322	-.00810	.00033	-.00041

RUN NO. 91/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.200	-10.340	-.00300	.01620	.42340	-.18730	.07600	.29040	.15620
1.200	-8.360	-.01000	.02850	.33910	-.15390	.06390	.29340	.15420
1.200	-6.270	-.02180	.04220	.25640	-.11720	.05050	.29830	.15050
1.200	-4.160	-.02900	.05380	.16810	-.07640	.03410	.30060	.14880
1.200	-2.100	-.03640	.06300	.08410	-.03730	.01800	.30160	.14880
1.200	-.020	-.04370	.07090	-.00050	.00250	.00150	.30440	.14770
1.200	2.070	-.04360	.07120	-.08810	.04490	-.01610	.30350	.14900
1.200	4.140	-.03500	.06550	-.17330	.08550	-.03340	.30410	.14720
1.200	6.260	-.02650	.05790	-.25860	.12540	-.04940	.29900	.14860
1.200	8.340	-.01520	.04750	-.34840	.16450	-.06470	.29750	.14970
1.200	10.340	-.00540	.03880	-.43090	.19580	-.07770	.29540	.15160
1.200	.000	-.03850	.07010	-.00340	.00370	-.00010	.30240	.14810
	GRADIENT	-.00092	.00152	-.04117	.01955	-.00814	.00043	-.00014

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77015) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 172/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.360	.00510	-.00230	.42750	-.18810	.07240	.30980	.12550
1.462	.000	.00000	.02080	.00870	-.00540	.00320	.31890	.11940
1.462	10.370	.00530	.01390	-.42200	.18090	-.07010	.31590	.12070
1.462	-4.200	.00580	.00970	.17470	-.08340	.03300	.31330	.12370
1.462	-2.100	.00390	.01670	.09120	-.04430	.01800	.31580	.12220
1.462	-.020	.00090	.02070	.00760	-.00510	.00260	.32030	.11870
1.462	2.060	.00100	.02170	-.07960	.03610	-.01380	.32110	.12010
1.462	4.140	.00410	.02020	-.16110	.07370	-.02970	.32060	.12090
1.462	6.290	.00900	.01560	-.24920	.11280	-.04490	.31930	.12130
1.462	8.380	.00740	.01420	-.33370	.14790	-.05820	.31710	.12100
1.462	10.370	.00530	.01390	-.41970	.17960	-.07070	.31590	.12220
1.462	.000	.00090	.02090	.00650	-.00490	.00130	.31950	.11920
	GRADIENT	.00008	.00011	-.04101	.01821	-.00715	.00015	-.00013

RUN NO. 158/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.500	-.02100	.01960	.41880	-.16350	.06140	.29980	.08890
1.966	-8.480	-.01400	.01800	.32860	-.12660	.04780	.29650	.08760
1.966	-6.350	-.00730	.01400	.24140	-.09320	.03520	.29570	.08830
1.966	-4.230	-.00330	.01440	.16090	-.06350	.02390	.29860	.08910
1.966	-2.100	.00160	.01490	.08010	-.03240	.01230	.29700	.08900
1.966	.000	.00300	.01520	-.00070	.00120	.00000	.29770	.08860
1.966	2.090	.00270	.01860	-.08060	.03490	-.01240	.29900	.08870
1.966	4.160	.00290	.01940	-.15790	.06450	-.02360	.29840	.08860
1.966	6.340	.00110	.01920	-.24270	.09750	-.03560	.29710	.08730
1.966	8.490	-.00270	.02070	-.33340	.13150	-.04860	.29840	.08570
1.966	10.490	-.00630	.02250	-.42440	.16790	-.06240	.29950	.08600
1.966	.000	.00410	.01500	-.00420	.00360	-.00150	.29390	.08510
	GRADIENT	.00064	.00065	-.03800	.01539	-.00570	.00008	-.00006

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77015) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 165/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.200	-.02720	.02660	.35540	-.11180	.04070	.26410	.04450
2.990	-8.230	-.02240	.02670	.28650	-.08720	.03180	.26110	.04500
2.990	-6.190	-.02370	.02720	.21460	-.06430	.02360	.25700	.04520
2.990	-4.150	-.02310	.02910	.14500	-.04280	.01650	.25340	.04460
2.990	-2.080	-.02080	.02980	.07510	-.02190	.00840	.25190	.04370
2.990	-.020	-.02020	.02980	-.00220	.00280	-.00030	.25370	.04230
2.990	2.060	-.01990	.03020	-.07790	.02560	-.00960	.25440	.04120
2.990	4.130	-.01960	.02880	-.15150	.04670	-.01760	.25490	.04300
2.990	6.210	-.01520	.02720	-.22420	.07060	-.02520	.25920	.04440
2.990	8.250	-.01840	.02650	-.29200	.09120	-.03320	.26230	.04460
2.990	10.220	-.01740	.02650	-.36300	.11720	-.04260	.26620	.04410
2.990	.000	-.02040	.02890	-.00430	.00280	-.00170	.25340	.04260
	GRADIENT	.00038	-.00001	-.03604	.01094	-.00416	.00027	-.00028

RUN NO. 13/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.040	-.04350	.03560	.30250	-.10650	.02990	.24200	.01190
4.959	-8.140	-.03710	.03290	.23960	-.07700	.02230	.23330	.01210
4.959	-6.090	-.03730	.03370	.17500	-.04880	.01540	.22560	.01230
4.959	-4.060	-.03800	.03700	.11370	-.02660	.00960	.22090	.01250
4.959	-2.030	-.03960	.03710	.05700	-.01310	.00490	.22070	.01230
4.959	.000	-.03790	.03780	.00190	-.00010	.00000	.22220	.01180
4.959	2.030	-.03960	.03870	-.05630	.01310	-.00450	.22000	.01230
4.959	4.040	-.03780	.04010	-.11140	.02690	-.00990	.21910	.01280
4.959	6.130	-.03580	.03610	-.17610	.04820	-.01620	.22140	.01330
4.959	8.120	-.03590	.03620	-.24050	.07710	-.02300	.22820	.01360
4.959	10.060	-.02950	.03580	-.30500	.10690	-.03090	.23770	.01390
	GRADIENT	.00002	.00038	-.02781	.00657	-.00239	-.00021	.00003

MS56(IA1) NAR ATP BL LV (02)(T1)(S1) (R77016) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 6.000
PHI = 60.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 48/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.604	-10.550	-.74700	.27860	.05970	-.02640	.00490	.13730	.12770
.604	-8.580	-.62290	.24130	.05890	-.02580	.00500	.14480	.12340
.604	-6.480	-.49710	.20290	.05600	-.02440	.00480	.14390	.12580
.604	-4.370	-.38300	.16830	.05310	-.02300	.00510	.14840	.12240
.604	-2.280	-.26750	.13450	.05150	-.02210	.00590	.15180	.11810
.604	-.190	-.15980	.10190	.05080	-.02170	.00680	.15120	.11430
.604	1.880	-.04780	.06350	.05000	-.02040	.00800	.14970	.10790
.604	3.960	.06820	.02470	.04960	-.01990	.00880	.14490	.10720
.604	6.100	.18710	-.01170	.04120	-.01490	.00850	.13820	.10660
.604	8.160	.30250	-.04960	.03930	-.01340	.00920	.13030	.10450
.604	10.130	.42010	-.08670	.04000	-.01370	.01040	.12220	.10250
.604	-.190	-.15720	.10110	.05190	-.02070	.00680	.15230	.11330
	GRADIENT	.05389	-.01720	-.00041	.00038	.00046	-.00044	-.00195

RUN NO. 49/ 0 RN/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.970	-.77930	.28960	.04810	-.02340	.00510	.20980	.15420
.900	-8.880	-.64620	.25490	.05140	-.02400	.00490	.21070	.15270
.900	-6.690	-.50900	.21790	.05100	-.02220	.00450	.21390	.14700
.900	-4.510	-.38020	.18260	.04890	-.02110	.00460	.21380	.14400
.900	-2.360	-.26340	.15040	.05040	-.02310	.00510	.21120	.14160
.900	-.200	-.15230	.11910	.04890	-.02270	.00580	.20050	.14180
.900	1.930	-.01890	.05550	.04280	-.01890	.00570	.19490	.13440
.900	4.070	.12150	-.02020	.03810	-.01530	.00550	.18840	.13350
.900	6.270	.25250	-.06550	.03550	-.01220	.00550	.18270	.12970
.900	8.380	.37940	-.11300	.04120	-.01370	.00670	.17570	.12640
.900	10.440	.49690	-.14660	.03560	-.00970	.00630	.17370	.12660
.900	-.180	-.14560	.11390	.04390	-.02060	.00520	.19880	.14150
	GRADIENT	.05817	-.02332	-.00136	.00074	.00011	-.00313	-.00131

M556(IA1) NAR ATP BL LV (C2)(T1)(S1) (R77016) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	6.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 50/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-11.100	-.67690	.36390	.05420	-.02750	.00570	.27880	.19340
.999	-8.970	-.72630	.32050	.05490	-.02820	.00570	.28050	.18700
.999	-6.770	-.57910	.27400	.05470	-.02860	.00600	.28290	.17900
.999	-4.550	-.43410	.22660	.05690	-.02940	.00640	.27900	.17500
.999	-2.380	-.29680	.17970	.05880	-.02940	.00670	.27880	.17140
.999	-.180	-.17340	.14270	.05190	-.02580	.00620	.27060	.16740
.999	1.980	-.03040	.08340	.04170	-.02070	.00580	.25790	.16370
.999	4.160	.11440	.01460	.03940	-.01890	.00570	.25650	.15590
.999	6.310	.25960	-.05410	.03650	-.01650	.00560	.24560	.15220
.999	8.490	.40580	-.10850	.03900	-.01790	.00720	.24100	.15060
.999	10.550	.53440	-.15210	.03270	-.01250	.00730	.23400	.14490
.999	-.170	-.16700	.14090	.05220	-.02670	.00640	.26960	.16740
	GRADIENT	.06259	-.02388	-.00239	.00136	-.00011	-.00303	-.00211

RUN NO. 51/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-11.320	-.64170	.29560	.04630	-.02430	.00560	.32520	.15580
1.199	-9.110	-.65930	.24630	.04320	-.02250	.00490	.32690	.15290
1.199	-6.840	-.51210	.21270	.04330	-.02230	.00480	.32570	.15310
1.199	-4.580	-.37840	.18280	.03840	-.01770	.00310	.32650	.15260
1.199	-2.380	-.24820	.14610	.03410	-.01360	.00280	.32710	.14900
1.199	-.160	-.12670	.10770	.03140	-.00990	.00290	.32280	.14790
1.199	2.030	.00800	.05900	.02930	-.00790	.00380	.31270	.14610
1.199	4.210	.14740	-.00110	.03100	-.00800	.00490	.30760	.14450
1.199	6.420	.28290	-.05290	.02990	-.00620	.00490	.30340	.14090
1.199	8.620	.40840	-.09130	.02660	-.00400	.00500	.29760	.13720
1.199	10.710	.52490	-.11920	.02830	-.00280	.00550	.29040	.13560
1.199	-.150	-.12070	.10650	.03480	-.01110	.00360	.32120	.15000
	GRADIENT	.05947	-.02068	-.00089	.00114	.00021	-.00237	-.00087

MS56(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77017) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = .000

RUN NO. 39/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.090	-.03330	.02460	.37060	-.16890	.05680	.12240	.13600
.600	-8.160	-.04020	.03570	.30900	-.14270	.05080	.12810	.12930
.600	-6.120	-.05810	.04970	.23400	-.10920	.04070	.13350	.12440
.600	-4.070	-.06260	.05730	.16270	-.07560	.02930	.14130	.11820
.600	-2.040	-.07120	.06730	.08840	-.03980	.01720	.14800	.11440
.600	.000	-.07790	.07430	.01310	-.00570	.00450	.15170	.11260
.600	2.040	-.07600	.07620	-.06240	.03000	-.00890	.14850	.11680
.600	4.030	-.07540	.07550	-.13720	.06580	-.02150	.14840	.11420
.600	6.150	-.07090	.07290	-.21370	.10270	-.03380	.14170	.12050
.600	8.160	-.05780	.06580	-.28180	.13430	-.04470	.13480	.12890
.600	10.080	-.04690	.05700	-.34690	.16040	-.05340	.13060	.13300
.600	.000	-.07780	.07430	.01300	-.00490	.00350	.15350	.11120
	GRADIENT	-.00150	.00222	-.03701	.01739	-.00630	.00073	-.00028

RUN NO. 38/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.896	-10.220	-.06160	.04520	.40950	-.19420	.06350	.17510	.16430
.896	-8.240	-.06110	.05040	.33710	-.16810	.05490	.17990	.15480
.896	-6.180	-.07040	.06330	.25780	-.13150	.04320	.18360	.15030
.896	-4.100	-.08590	.07840	.18070	-.09400	.03160	.18710	.14400
.896	-2.050	-.09190	.09140	.09120	-.04750	.01720	.19310	.14140
.896	.000	-.09000	.09740	.00330	-.00360	.00300	.19790	.13820
.896	2.060	-.08980	.09710	-.08680	.04130	-.01240	.19990	.13770
.896	4.090	-.08130	.09180	-.16720	.08190	-.02640	.19710	.14010
.896	6.190	-.07490	.08610	-.25160	.12520	-.04060	.19710	.14540
.896	8.220	-.06440	.07590	-.32370	.16040	-.05230	.19380	.15200
.896	10.230	-.05760	.06670	-.39840	.18890	-.06140	.19010	.15770
.896	.000	-.09290	.09860	.00520	-.00190	.00130	.20590	.13980
	GRADIENT	.00055	.00159	-.04265	.02150	-.00711	.00131	-.00056

M556(IA1) NAR ATP BL LV (C2)(T1)(S1) (R77017) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	6.000
PHI =	60.000	ORBINC =	.000
RUDDER =	.000	AILRON =	.000

RUN NO. 37/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.230	-.07370	.07720	.45780	-.23050	.07630	.25170	.18260
.999	-8.270	-.08080	.08540	.37160	-.19270	.06430	.25570	.17500
.999	-6.190	-.09200	.09720	.28290	-.15070	.05050	.25600	.17240
.999	-4.110	-.10670	.11160	.19070	-.10200	.03430	.25680	.16990
.999	-2.060	-.10870	.11940	.09680	-.05160	.01850	.26650	.16630
.999	.000	-.11200	.12570	.00800	-.00490	.00250	.26820	.16640
.999	2.060	-.11030	.12540	-.08860	.04580	-.01420	.26780	.16390
.999	4.080	-.09910	.11670	-.17230	.09180	-.02980	.26950	.16390
.999	6.280	-.09310	.10920	-.27020	.14460	-.04670	.26340	.16750
.999	8.280	-.07630	.09970	-.36480	.19020	-.06190	.26500	.17190
.999	10.240	-.06850	.09790	-.44810	.22700	-.07510	.26310	.17470
.999	.000	-.11030	.12480	.00720	-.00400	.00110	.26370	.16500
	GRADIENT	.00066	.00080	-.04446	.02366	-.00785	.00130	-.00070

RUN NO. 36/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-10.350	-.05350	.05480	.41390	-.17860	.07020	.30850	.15650
1.199	-8.370	-.06050	.06800	.33370	-.14680	.05880	.31250	.15490
1.199	-6.270	-.07340	.08180	.24750	-.11020	.04570	.31690	.15190
1.199	-4.170	-.08610	.09690	.16330	-.07200	.03040	.31580	.15470
1.199	-2.110	-.09460	.10890	.08280	-.03570	.01560	.31650	.15450
1.199	-.010	-.10320	.11720	.00350	.00030	.00090	.31960	.15280
1.199	2.070	-.09800	.11640	-.08280	.04020	-.01440	.31940	.15310
1.199	4.150	-.09070	.11080	-.16360	.07790	-.02970	.32110	.15050
1.199	6.270	-.07820	.10070	-.24800	.11640	-.04450	.31820	.15050
1.199	8.330	-.06590	.09070	-.33500	.15310	-.05890	.31470	.15280
1.199	10.380	-.05610	.08060	-.41990	.18520	-.07220	.31430	.15240
1.199	.000	-.09910	.11660	-.00090	.00190	-.00060	.31720	.15320
	GRADIENT	-.00060	.00169	-.03936	.01805	-.00721	.00065	-.00047

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77018) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	-1.200
RUDDER =	.000	AILRON =	.000

RUN NO. 119/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.550	-.75210	.28230	.06160	-.02710	.00720	.12570	.13370
.600	-8.580	-.62990	.24460	.06090	-.02640	.00700	.12790	.13370
.600	-6.480	-.49780	.20120	.05760	-.02520	.00650	.13220	.12910
.600	-4.370	-.36160	.16380	.05580	-.02530	.00670	.13450	.12730
.600	-2.280	-.25910	.12470	.05380	-.02420	.00710	.13660	.12210
.600	-.190	-.14990	.09360	.05350	-.02370	.00800	.13590	.11960
.600	1.880	-.03960	.05470	.05380	-.02390	.00900	.13360	.11390
.600	3.950	.08220	.01350	.05240	-.02310	.00920	.12710	.11510
.600	6.080	.20180	-.02440	.05160	-.02190	.00960	.12490	.10790
.600	8.170	.32040	-.06190	.04670	-.01930	.01050	.11110	.11000
.600	10.130	.43380	-.09890	.03810	-.01450	.01070	.10310	.10770
.600	-.200	-.15230	.09330	.05230	-.02360	.00770	.13520	.12080
	GRADIENT	.05515	-.01782	-.00033	.00023	.00033	-.00085	-.00157

RUN NO. 118/ 0 RN/L = 5.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.650	-.77950	.28990	.06130	-.02740	.00710	.16540	.14370
.802	-8.600	-.64230	.24850	.05840	-.02650	.00610	.16610	.14200
.802	-6.640	-.50210	.20710	.05570	-.02510	.00580	.16680	.13890
.802	-4.480	-.38050	.16940	.05770	-.02620	.00680	.16250	.13990
.802	-2.360	-.25820	.13140	.05660	-.02630	.00730	.15980	.13670
.802	-.210	-.14010	.09230	.05370	-.02550	.00730	.15350	.13140
.802	1.910	-.02320	.05310	.04920	-.02240	.00810	.14870	.12740
.802	4.020	.10160	.00630	.04980	-.02210	.00870	.14740	.12280
.802	6.210	.22150	-.03610	.04590	-.01970	.00900	.14200	.11970
.802	8.320	.34750	-.07930	.04300	-.01680	.00870	.13490	.11590
.802	10.350	.47200	-.12280	.04740	-.01780	.01050	.12810	.11420
.802	-.200	-.13660	.09230	.05570	-.02580	.00740	.15140	.13520
	GRADIENT	.05638	-.01902	-.00109	.00057	.00022	-.00194	-.00205

MS56(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77018) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 60.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 117/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-10.970	-.78530	.29410	.05310	-.02730	.00680	.19820	.16570
.903	-8.880	-.64820	.25810	.05570	-.02730	.00660	.19920	.16150
.903	-6.690	-.50790	.21930	.05800	-.02750	.00670	.20270	.15510
.903	-4.540	-.38120	.18390	.06120	-.02820	.00750	.20190	.15140
.903	-2.360	-.25860	.14490	.05620	-.02820	.00730	.19730	.14820
.903	-.180	-.14270	.10980	.05070	-.02510	.00710	.18460	.14910
.903	1.940	-.00600	.04660	.04730	-.02290	.00720	.18060	.13940
.903	4.050	.12880	-.02750	.04870	-.02200	.00800	.17080	.13730
.903	6.240	.25310	-.07160	.04630	-.01900	.00830	.16890	.13280
.903	8.370	.38480	-.11860	.04610	-.01810	.00820	.16060	.12890
.903	10.420	.50790	-.15740	.04460	-.01610	.00870	.15610	.12650
.903	-.180	-.13220	.10390	.05530	-.02720	.00790	.17900	.14740
	GRADIENT	.05923	-.02423	-.00158	.00082	.00004	-.00367	-.00172

RUN NO. 115/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.000	-11.070	-.88570	.37760	.05850	-.03090	.00740	.26610	.19400
1.000	-8.970	-.73660	.33210	.05890	-.03070	.00710	.26760	.18810
1.000	-6.760	-.59140	.28720	.05900	-.03070	.00770	.26580	.18300
1.000	-4.570	-.44760	.23930	.05990	-.03040	.00780	.26580	.17640
1.000	-2.380	-.30720	.19080	.05860	-.02990	.00760	.26350	.17210
1.000	-.170	-.17640	.15040	.05550	-.02750	.00750	.25400	.17100
1.000	2.000	-.03370	.08630	.04890	-.02310	.00740	.24180	.16420
1.000	4.130	.12000	.00580	.04750	-.02100	.00690	.23380	.15760
1.000	6.320	.26910	-.06530	.04630	-.01870	.00760	.22470	.15210
1.000	8.500	.41950	-.12640	.04770	-.01900	.00820	.21600	.14870
1.000	10.550	.55400	-.17140	.04580	-.01620	.00870	.20930	.14850
1.000	-.160	-.16960	.14680	.05630	-.02730	.00740	.24960	.17090
	GRADIENT	.06466	-.02621	-.00158	.00117	-.00009	-.00393	-.00209

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77018) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 116/ 0 RN/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-11.290	-.85280	.30990	.05080	-.02650	.00740	.30990	.16220
1.199	-9.100	-.67010	.26160	.04930	-.02540	.00680	.31240	.15710
1.199	-6.830	-.51880	.22270	.04590	-.02390	.00600	.31200	.15510
1.199	-4.590	-.38610	.19120	.04170	-.01890	.00500	.30960	.15380
1.199	-2.360	-.25120	.14940	.03840	-.01610	.00440	.30860	.15230
1.199	-.150	-.11940	.10530	.03910	-.01420	.00510	.30300	.15210
1.199	2.030	.01950	.04820	.03580	-.01220	.00570	.29650	.14740
1.199	4.210	.16130	-.01450	.03810	-.01230	.00660	.29090	.14610
1.199	6.430	.29050	-.06280	.03300	-.00870	.00530	.28640	.14120
1.199	8.640	.40940	-.09500	.03310	-.00760	.00640	.28100	.13850
1.199	10.730	.52780	-.12270	.03260	-.00570	.00670	.27370	.13720
1.199	-.150	-.11320	.10110	.03810	-.01360	.00540	.30360	.15150
	GRADIENT	.06209	-.02330	-.00045	.00078	.00020	-.00225	-.00092

RUN NO. 178/ 0 RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-11.340	-.82490	.28330	.05750	-.03390	.00650	.44620	.00420
1.465	-9.150	-.64100	.22730	.05150	-.02980	.00640	.43490	.01020
1.465	-6.820	-.46960	.18060	.04810	-.02810	.00710	.43720	.00600
1.465	-4.600	-.33340	.14320	.04500	-.02480	.00660	.44100	.00010
1.465	-2.410	-.20760	.10680	.04200	-.02010	.00640	.42580	.01540
1.465	-.180	-.08430	.06770	.04250	-.01920	.00650	.41220	.02620
1.465	2.020	.04300	.02180	.04190	-.01780	.00670	.38650	.04530
1.465	4.190	.16220	-.01850	.04080	-.01540	.00620	.38680	.04590
1.465	6.500	.28560	-.04850	.03710	-.01220	.00580	.38640	.04500
1.465	8.680	.39680	-.07100	.03720	-.01190	.00630	.38550	.03950
1.465	10.780	.49940	-.08430	.03340	-.01120	.00630	.38140	.03510
1.465	-.150	-.07800	.06570	.04090	-.01820	.00600	.41240	.02770
	GRADIENT	.05642	-.01855	-.00039	.00096	-.00002	-.00671	.00552

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77018) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.6200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 160/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-11.340	-.71900	.22050	.03200	-.01710	.00210	.30080	.09250
1.965	-9.180	-.56400	.16990	.03680	-.01990	.00260	.29500	.09180
1.965	-6.910	-.41360	.12670	.03560	-.01640	.00280	.29110	.09020
1.965	-4.650	-.28330	.09300	.03530	-.01410	.00320	.29250	.08940
1.965	-2.410	-.16550	.06550	.03440	-.01350	.00360	.29350	.08950
1.965	-.190	-.05690	.04050	.03290	-.01290	.00370	.29480	.08910
1.965	2.000	.04580	.01580	.03340	-.01170	.00420	.29130	.08810
1.965	4.230	.15040	-.01110	.03310	-.01020	.00490	.28740	.08870
1.965	6.510	.26250	-.03290	.03450	-.00940	.00540	.28770	.08970
1.965	8.730	.37010	-.04920	.04100	-.00870	.00620	.28370	.08720
1.965	10.860	.46520	-.05870	.04620	-.01300	.00720	.27970	.08610
1.965	-.150	-.04910	.04010	.03310	-.01260	.00370	.29130	.08570
	GRADIENT	.04866	-.01163	-.00024	.00043	.00018	-.00056	-.00013

RUN NO. 24/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.600	-.86090	.13530	.02490	-.01010	.00130	.27120	.04120
2.990	-8.620	-.46040	.11130	.02340	-.00880	.00120	.26290	.04060
2.990	-6.490	-.35050	.08460	.02380	-.00920	.00130	.25700	.04080
2.990	-4.380	-.24400	.06320	.02520	-.00860	.00160	.25700	.04080
2.990	-2.270	-.15090	.05170	.02380	-.00740	.00170	.25880	.04000
2.990	-.150	-.05580	.04320	.02710	-.00780	.00230	.25740	.04130
2.990	1.950	.02770	.03560	.02840	-.00840	.00280	.25300	.04130
2.990	4.020	.11150	.02350	.02890	-.00690	.00340	.24610	.04080
2.990	6.170	.20840	.00700	.03040	-.00690	.00410	.24060	.04090
2.990	8.250	.29760	-.00730	.03070	-.00730	.00410	.23360	.04180
2.990	10.280	.39450	-.02470	.02830	-.00540	.00400	.22770	.04260
	GRADIENT	.04233	-.00454	.00057	.00011	.00022	-.00131	.00006

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77018) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 60.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 25/ 0 RN/L = 4.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.320	-.47450	.11520	.01950	-.00670	.00090	.26240	.00920
4.959	-8.390	-.38810	.09280	.01330	-.00560	.00030	.24740	.01000
4.959	-6.310	-.29810	.07470	.01690	-.00670	.00090	.23740	.01070
4.959	-4.260	-.21780	.06140	.01720	-.00720	.00070	.23100	.01110
4.959	-2.210	-.14390	.05240	.01590	-.00640	.00100	.22820	.01190
4.959	-.150	-.06330	.04360	.01470	-.00410	.00040	.22300	.01220
4.959	1.900	.00720	.03960	.01980	-.00760	.00170	.21580	.01180
4.959	3.920	.07500	.03110	.01860	-.00530	.00190	.20310	.01140
4.959	6.030	.15830	.01280	.01560	-.00440	.00090	.19590	.01170
4.959	8.050	.23560	-.00020	.01610	-.00340	.00240	.19080	.01270
4.959	10.030	.30630	-.00970	.01480	-.00260	.00220	.18530	.01280
	GRADIENT	.03599	-.00359	.00033	.00013	.00015	-.00333	.00002

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77019) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 112/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.070	-.02900	.01880	.37820	-.17340	.06110	.10810	.13620
.598	-8.160	-.04070	.03150	.31440	-.14770	.05420	.10840	.13550
.598	-6.100	-.04760	.04090	.24380	-.11610	.04470	.11640	.12930
.598	-4.070	-.05860	.05230	.17160	-.08150	.03270	.12400	.12410
.598	-2.060	-.06950	.06120	.09890	-.04720	.02040	.13160	.11720
.598	-.010	-.07380	.06760	.02340	-.01060	.00680	.13580	.11560
.598	2.020	-.07370	.07060	-.05550	.02750	-.00700	.13290	.11910
.598	4.050	-.06880	.06790	-.13540	.06660	-.02110	.12810	.12220
.598	6.100	-.06660	.06620	-.20870	.10060	-.03350	.12660	.12160
.598	8.150	-.06000	.06210	-.27700	.13260	-.04430	.11910	.12840
.598	10.070	-.04720	.05360	-.34500	.16040	-.05390	.11240	.13570
.598	-.010	-.07400	.06800	.01890	-.00740	.00470	.13390	.11690
	GRADIENT	-.00121	.00200	-.03782	.01825	-.00664	.00047	-.00009

RUN NO. 111/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.800	-10.190	-.03480	.02800	.40640	-.19020	.06480	.12440	.15380
.800	-8.230	-.04130	.03800	.33780	-.16450	.05560	.12880	.14770
.800	-6.170	-.05500	.05160	.26550	-.13250	.04560	.13640	.14090
.800	-4.120	-.05770	.05920	.18920	-.09560	.03390	.13900	.13670
.800	-2.080	-.06320	.06640	.10530	-.05310	.02020	.14650	.13190
.800	-.010	-.07190	.07490	.02040	-.01030	.00570	.15240	.12750
.800	2.030	-.07130	.07670	-.06670	.03370	-.00970	.15160	.12940
.800	4.080	-.06510	.07360	-.14830	.07570	-.02400	.14860	.13070
.800	6.170	-.06190	.06960	-.22940	.11640	-.03740	.14390	.13270
.800	8.200	-.04860	.05930	-.30740	.15250	-.04900	.14030	.13790
.800	10.160	-.03840	.05050	-.37900	.18110	-.05930	.13470	.14670
.800	-.010	-.06560	.07320	.01730	-.00820	.00400	.15170	.12960
	GRADIENT	-.00112	.00191	-.04130	.02094	-.00710	.00119	-.00071

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77019) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	-1.200
RUDDER =	.000	AILRON =	.000

RUN NO. 110/ 0 RN/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.200	-.04850	.03410	.42000	-.20040	.06740	.15670	.16470
.902	-8.250	-.05120	.04350	.34730	-.17420	.05870	.16670	.15710
.902	-6.180	-.05940	.05640	.28520	-.13690	.04650	.17410	.14710
.902	-4.120	-.06720	.06850	.18390	-.09820	.03420	.17360	.14610
.902	-2.050	-.07560	.08100	.09580	-.05260	.01960	.18080	.14300
.902	.000	-.07770	.08580	.00800	-.00750	.00430	.18540	.13910
.902	2.060	-.07850	.08680	-.08240	.03780	-.01100	.18650	.13820
.902	4.140	-.07280	.08270	-.17120	.08350	-.02660	.18200	.14310
.902	6.210	-.06560	.07980	-.25210	.12530	-.04140	.18710	.14550
.902	8.260	-.05620	.06960	-.32910	.16220	-.05400	.17680	.15000
.902	10.210	-.05060	.05880	-.39770	.18820	-.06290	.16900	.15680
.902	.000	-.07930	.08790	.01250	-.00630	.00270	.18750	.14180
	GRADIENT	-.00068	.00166	-.04306	.02200	-.00738	.00109	-.00052

RUN NO. 114/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.250	-.07500	.07980	.46540	-.23110	.08120	.23240	.18070
.999	-8.280	-.08150	.08990	.37910	-.19320	.06850	.23800	.17650
.999	-6.210	-.09540	.10130	.28700	-.14900	.05330	.24330	.17050
.999	-4.130	-.10770	.11390	.19390	-.10110	.03650	.24960	.16530
.999	-2.060	-.11630	.12620	.10220	-.05310	.02010	.24940	.16640
.999	.000	-.12320	.13410	.01350	-.00700	.00380	.25070	.16600
.999	2.050	-.12190	.13280	-.07970	.04080	-.01290	.25480	.16250
.999	4.110	-.11110	.12480	-.17210	.08990	-.02960	.24830	.16400
.999	6.210	-.10340	.11660	-.26780	.14070	-.04740	.24730	.16620
.999	8.280	-.09060	.10720	-.36190	.18680	-.06330	.24150	.17070
.999	10.240	-.08230	.10250	-.44960	.22710	-.07760	.23530	.17650
.999	.000	-.11970	.13280	.01160	-.00640	.00270	.24910	.16530
	GRADIENT	-.00060	.00138	-.04439	.02311	-.00802	.00014	-.00032

MSS6(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77019) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 113/ 0 RN/L = 6.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-10.350	-.05160	.05280	.42820	-.18780	.07730	.28790	.15830
1.199	-8.370	-.06160	.06660	.34470	-.15400	.06560	.29370	.15480
1.199	-6.270	-.07160	.08030	.25950	-.11790	.05160	.29710	.15340
1.199	-4.170	-.08220	.09340	.17300	-.07800	.03550	.29980	.15240
1.199	-2.110	-.08840	.10400	.08640	-.03760	.01860	.30320	.15050
1.199	.000	-.09690	.11160	.00140	.00100	.00210	.30420	.14990
1.199	2.070	-.09370	.11100	-.08400	.04130	-.01460	.30390	.14890
1.199	4.150	-.08650	.10520	-.17060	.08250	-.03200	.30250	.14970
1.199	6.270	-.07780	.09620	-.25840	.12300	-.04880	.30300	.14770
1.199	8.370	-.06660	.08560	-.34530	.15960	-.06440	.29730	.15060
1.199	10.340	-.05700	.07560	-.42930	.19140	-.07710	.29370	.15250
1.199	.000	-.09490	.11120	-.00130	.00240	.00040	.30310	.14920
	GRADIENT	-.00067	.00147	-.04119	.01921	-.00808	.00029	-.00034

RUN NO. 179/ 0 RN/L = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.370	-.03660	.03060	.42880	-.18640	.07300	.30680	.12660
1.461	-8.380	-.03530	.03210	.33980	-.15160	.06100	.30820	.12550
1.461	-6.260	-.03260	.03520	.25320	-.11540	.04760	.30870	.12600
1.461	-4.160	-.03490	.04120	.16920	-.07690	.03340	.31040	.12450
1.461	-2.100	-.03890	.04900	.08810	-.04100	.01760	.31480	.12220
1.461	.000	-.04410	.05420	.00540	-.00360	.00210	.31790	.12060
1.461	2.060	-.04200	.05430	-.07810	.03490	-.01360	.31850	.12150
1.461	4.170	-.03910	.05350	-.16010	.07170	-.02960	.31530	.12490
1.461	6.300	-.03420	.04960	-.24890	.11050	-.04520	.31560	.12320
1.461	8.390	-.03590	.04810	-.33420	.14540	-.05890	.31580	.12240
1.461	10.390	-.03900	.04760	-.42480	.17950	-.07130	.31330	.12430
1.461	.000	-.04310	.05390	.00430	-.00340	.00090	.31830	.12050
	GRADIENT	-.00055	.00143	-.03962	.01811	-.00755	.00065	.00001

M596(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77019) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	8.000
PHI =	60.000	ORBINC =	-1.200
RUDDER =	.000	AILRON =	.000

RUN NO. 159/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.500	-.04270	.03720	.42090	-.16290	.06160	.29670	.08930
1.966	-8.490	-.03960	.03860	.33190	-.12630	.04890	.29350	.08950
1.966	-6.360	-.03570	.03690	.24240	-.09140	.03570	.29270	.09030
1.966	-4.200	-.03250	.03680	.16060	-.06150	.02380	.29360	.09290
1.966	-2.130	-.03050	.03950	.08130	-.03210	.01210	.29480	.09120
1.966	-.020	-.03020	.03910	.00160	-.00020	.00000	.29700	.08910
1.966	2.100	-.03200	.04220	-.07980	.03310	-.01230	.29490	.08850
1.966	4.200	-.03240	.04400	-.15600	.06250	-.02360	.29300	.09190
1.966	6.350	-.03440	.04370	-.24570	.09600	-.03640	.29530	.08970
1.966	8.460	-.03800	.04510	-.33150	.12900	-.04880	.29530	.08910
1.966	10.500	-.03770	.04400	-.42270	.16620	-.06270	.29480	.08890
1.966	.000	-.03060	.03950	-.00180	.00180	-.00110	.29020	.08680
	GRADIENT	-.00006	.00081	-.03777	.01489	-.00569	-.00005	-.00022

RUN NO. 23/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.200	-.04820	.03790	.36440	-.11780	.04130	.26430	.04540
2.990	-8.270	-.04520	.03910	.29260	-.09110	.03250	.26060	.04610
2.990	-6.190	-.04060	.03970	.22180	-.06700	.02420	.25700	.04590
2.990	-4.130	-.04200	.04070	.14790	-.04440	.01630	.25360	.04530
2.990	-2.060	-.03970	.04190	.07800	-.02390	.00860	.25360	.04400
2.990	.000	-.03920	.04190	.00320	-.00130	-.00040	.25200	.04480
2.990	2.060	-.03690	.04220	-.07520	.02320	-.00940	.25180	.04530
2.990	4.120	-.03650	.04030	-.14720	.04540	-.01740	.25320	.04550
2.990	6.230	-.03410	.04020	-.22090	.06820	-.02550	.25710	.04600
2.990	8.250	-.03550	.03890	-.29280	.09020	-.03350	.26030	.04570
2.990	10.200	-.03630	.03900	-.36270	.11620	-.04270	.26340	.04550
	GRADIENT	.00067	-.00002	-.03605	.01099	-.00414	-.00013	.00008

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77019) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 3.3120 IN. YMRP = .0000 IN.
BREF = 3.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 22/ 0 RN/L = 4.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.050	-.04990	.04230	.30230	-.10690	.02810	.23940	.01250
4.959	-8.130	-.04340	.04030	.23940	-.07730	.02060	.23030	.01280
4.959	-6.090	-.04690	.04150	.17340	-.04900	.01440	.22360	.01270
4.959	-4.060	-.04460	.04060	.10880	-.02610	.00820	.21960	.01180
4.959	-2.030	-.04290	.03970	.05360	-.01280	.00320	.21990	.01230
4.959	.000	-.04110	.04030	.00020	.00040	-.00120	.21880	.01270
4.959	2.050	-.03630	.04000	-.05640	.01390	-.00540	.21800	.01310
4.959	4.080	-.04100	.04270	-.11630	.02920	-.01050	.21680	.01370
4.959	6.130	-.03870	.04180	-.17610	.04940	-.01620	.22030	.01380
4.959	8.120	-.03920	.04110	-.24390	.07710	-.02320	.22710	.01390
4.959	10.080	-.03910	.04200	-.30990	.10880	-.03140	.23520	.01400
	GRADIENT	.00068	.00022	-.02751	.00674	-.00226	-.00037	.00023

M556(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77020) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 30/ 0 RN/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.596	-10.570	-.79460	.31770	.05880	-.02580	.00670	.14610	.13090
.596	-8.580	-.66890	.27810	.05900	-.02650	.00680	.14650	.13020
.596	-6.460	-.54070	.23720	.05710	-.02580	.00630	.14720	.13070
.596	-4.370	-.42070	.19860	.05540	-.02560	.00710	.14980	.12780
.596	-2.290	-.30900	.16320	.05710	-.02620	.00800	.15560	.12110
.596	-.200	-.19640	.12790	.04940	-.02140	.00750	.15220	.11790
.596	1.860	-.09210	.09230	.04770	-.01990	.00800	.14630	.11840
.596	3.930	.02620	.05270	.04680	-.01970	.00890	.14450	.11190
.596	6.110	.15450	.01520	.04310	-.01680	.00940	.13790	.11040
.596	8.150	.26640	-.02180	.04010	-.01570	.00990	.12840	.10990
.596	10.160	.38420	-.05900	.03850	-.01390	.01140	.11770	.10750
.596	-.200	-.18970	.12520	.04590	-.02010	.00680	.14810	.12180
	GRADIENT	.05353	-.01748	-.00128	.00087	.00017	-.00096	-.00166

RUN NO. 29/ 0 RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.798	-10.860	-.82530	.32640	.05370	-.02320	.00610	.18530	.14220
.798	-8.810	-.68830	.28550	.05010	-.02250	.00550	.18230	.14360
.798	-6.660	-.55920	.24760	.04730	-.02060	.00480	.18350	.13880
.798	-4.500	-.43690	.21040	.05030	-.02250	.00570	.18100	.13790
.798	-2.360	-.31590	.17290	.05160	-.02350	.00630	.17410	.13730
.798	-.230	-.20030	.13600	.04980	-.02200	.00660	.16330	.13750
.798	1.890	-.08520	.09900	.05040	-.02300	.00820	.16290	.13070
.798	4.020	.04240	.05140	.04560	-.01960	.00820	.16280	.12460
.798	6.190	.16540	.00810	.04340	-.01710	.00880	.15610	.12340
.798	8.280	.29190	-.03680	.04330	-.01720	.00970	.14760	.11890
.798	10.350	.41080	-.07670	.04360	-.01560	.01000	.14230	.11610
.798	-.220	-.19090	.13170	.04740	-.02170	.00640	.16480	.13860
	GRADIENT	.05586	-.01841	-.00050	.00030	.00032	-.00224	-.00156

MSS6(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77020) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 28/ 0 RN/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.960	-.82070	.32170	.04830	-.02510	.00560	.21580	.16310
.899	-8.890	-.68870	.28760	.05050	-.02520	.00550	.21670	.16010
.899	-6.710	-.55730	.25310	.04750	-.02280	.00500	.21800	.15540
.899	-4.510	-.42890	.21860	.05080	-.02370	.00590	.21780	.15270
.899	-2.360	-.30790	.18270	.04840	-.02300	.00590	.21260	.14890
.899	-.200	-.19140	.14690	.04810	-.02350	.00640	.20540	.14600
.899	1.920	-.06220	.08750	.04250	-.02050	.00620	.19780	.13980
.899	4.030	.07170	.01570	.04570	-.01990	.00720	.18750	.13910
.899	6.220	.19820	-.02930	.04600	-.01860	.00800	.18150	.13460
.899	8.360	.32920	-.07360	.04610	-.01750	.00840	.17500	.12960
.899	10.450	.45770	-.11390	.04300	-.01470	.00830	.16760	.13150
.899	-.200	-.18460	.14330	.04940	-.02410	.00690	.19820	.14770
	GRADIENT	.05831	-.02341	-.00075	.00047	.00014	-.00352	-.00170

RUN NO. 27/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-11.080	-.91590	.39960	.04990	-.02680	.00650	.28980	.19750
.998	-8.990	-.77120	.35860	.05420	-.02850	.00670	.29120	.19220
.998	-6.770	-.62160	.31190	.05690	-.03030	.00680	.29020	.18590
.998	-4.560	-.48180	.26600	.05720	-.02980	.00720	.28420	.18070
.998	-2.350	-.34340	.21880	.05960	-.03100	.00760	.28390	.17550
.998	-.190	-.21360	.17740	.05760	-.02930	.00740	.27270	.17480
.998	1.960	-.07130	.11260	.04910	-.02430	.00720	.25910	.16840
.998	4.100	.07440	.03860	.04740	-.02170	.00680	.25490	.16130
.998	6.300	.22260	-.03130	.04830	-.01960	.00760	.24310	.15640
.998	8.450	.35820	-.07740	.05030	-.02010	.00860	.23820	.15190
.998	10.540	.49280	-.12560	.04500	-.01610	.00900	.22740	.14980
.998	-.190	-.21060	.17380	.05220	-.02670	.00660	.27070	.17420
	GRADIENT	.06400	-.02592	-.00139	.00106	-.00006	-.00385	-.00212

M556(IA1) NAR ATP BL LV (O2) (T1) (S1) (R77020) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.
LREF =	5.3120 IN.	YMRP =	.0000 IN.
BREF =	5.3120 IN.	ZMRP =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA =	.000	CONFIG =	6.000
PHI =	80.000	ORBINC =	-1.200
RUDDER =	.000	AILRON =	.000

RUN NO. 26/ 1 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.197	-11.340	-.87930	.32500	.04480	-.02310	.00620	.33360	.16020
1.197	-9.120	-.69840	.27680	.04270	-.02230	.00590	.33570	.15640
1.197	-6.860	-.54890	.24190	.04150	-.02200	.00520	.33390	.15580
1.197	-4.590	-.42140	.21800	.04110	-.02020	.00460	.33030	.15530
1.197	-2.350	-.29180	.18150	.03890	-.01690	.00390	.32790	.15430
1.197	-.180	-.17060	.14250	.03350	-.01210	.00380	.32360	.15290
1.197	2.030	-.03450	.09370	.03410	-.01110	.00470	.31280	.15000
1.197	4.190	.10270	.03470	.03420	-.01080	.00600	.30800	.14510
1.197	6.420	.23460	-.01590	.03310	-.00890	.00620	.30240	.14110
1.197	8.590	.36670	-.05800	.03320	-.00770	.00660	.29400	.13950
1.197	10.740	.48830	-.08770	.03420	-.00670	.00690	.28500	.13800
1.197	-.160	-.16220	.14070	.03470	-.01220	.00380	.32440	.15280
	GRADIENT	.05950	-.02070	-.00085	.00112	.00016	-.00272	-.00112

M556(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77021) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 31/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.090	-.08720	.05910	.37270	-.16920	.05620	.12700	.13580
.598	-8.160	-.09640	.07090	.31000	-.14320	.04970	.13610	.12620
.598	-6.130	-.10780	.08400	.24190	-.11230	.04070	.13940	.12460
.598	-4.070	-.11180	.09010	.16800	-.07870	.03030	.14580	.11790
.598	-2.040	-.12370	.10110	.09690	-.04440	.01800	.15090	.11700
.598	-.010	-.12810	.10860	.02110	-.00860	.00550	.15120	.11900
.598	2.020	-.12540	.10930	-.05440	.02690	-.00700	.15210	.11790
.598	4.050	-.12340	.10890	-.12820	.06190	-.02000	.14690	.12280
.598	6.120	-.11620	.10420	-.20560	.09830	-.03250	.14590	.12070
.598	8.140	-.11190	.10070	-.27430	.12870	-.04290	.14160	.12520
.598	10.070	-.09220	.09000	-.33800	.15520	-.05200	.13450	.13160
.598	-.010	-.12360	.10710	.02220	-.00930	.00480	.15270	.11670
	GRADIENT	-.00123	.00226	-.03664	.01736	-.00619	.00017	.00053

RUN NO. 32/ 0 RN/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.170	-.09160	.07270	.39470	-.18160	.05980	.14630	.15100
.799	-8.230	-.09650	.08210	.32850	-.15700	.05170	.14900	.14750
.799	-6.170	-.10730	.09330	.25350	-.12520	.04160	.15450	.14120
.799	-4.100	-.11320	.10280	.18190	-.09070	.03070	.15720	.13820
.799	-2.060	-.11870	.11020	.09990	-.04940	.01760	.16400	.13360
.799	-.010	-.12640	.11760	.01650	-.00780	.00390	.16440	.13540
.799	2.030	-.11950	.11830	-.06540	.03340	-.00980	.16860	.13160
.799	4.080	-.11990	.11750	-.14980	.07530	-.02360	.16490	.13430
.799	6.140	-.11350	.11200	-.22470	.11360	-.03590	.16030	.13640
.799	8.180	-.09740	.10000	-.30140	.14800	-.04680	.15680	.14030
.799	10.160	-.09000	.09340	-.37080	.17460	-.05660	.15160	.14910
.799	-.010	-.12640	.11780	.01400	-.00620	.00260	.16800	.13380
	GRADIENT	-.00069	.00183	-.04052	.02028	-.00665	.00098	-.00048

M556(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77021) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 6.000
PHI = 60.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 33/ 0 RN/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-10.210	-.11560	.08180	.41940	-.19690	.06380	.17910	.16500
.897	-8.260	-.11320	.08670	.35060	-.17290	.05580	.18440	.15740
.897	-6.190	-.11770	.09710	.26830	-.13660	.04390	.18640	.15390
.897	-4.110	-.12530	.10780	.18750	-.09810	.03260	.18980	.14850
.897	-2.070	-.13540	.12250	.09620	-.05100	.01820	.19680	.14470
.897	.000	-.14440	.13150	.00850	-.00660	.00380	.20230	.14200
.897	2.060	-.13750	.13080	-.08050	.03730	-.01060	.20170	.14440
.897	4.110	-.13180	.12690	-.16240	.07900	-.02500	.19970	.14630
.897	6.190	-.12290	.12090	-.24850	.12170	-.03930	.19750	.14950
.897	8.230	-.11790	.11080	-.32660	.15920	-.05150	.19550	.15230
.897	10.210	-.10190	.09660	-.39220	.18320	-.05980	.19050	.15940
.897	.000	-.13880	.12990	.01310	-.00640	.00240	.20320	.14520
	GRADIENT	-.00073	.00226	-.04261	.02151	-.00700	.00120	-.00023

RUN NO. 34/ 0 RN/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.996	-10.240	-.11430	.11070	.46520	-.23260	.07770	.25640	.18450
.996	-8.270	-.12580	.12190	.38100	-.19720	.06590	.25720	.18270
.996	-6.200	-.14080	.13490	.29070	-.15350	.05140	.26140	.17760
.996	-4.120	-.15210	.14620	.19790	-.10520	.03540	.26490	.17610
.996	-2.080	-.15960	.15690	.10570	-.05580	.01950	.27040	.17430
.996	.000	-.16290	.16250	.01460	-.00870	.00360	.27240	.17360
.996	2.050	-.15740	.16070	-.08020	.04060	-.01290	.27220	.17200
.996	4.090	-.14860	.15260	-.17050	.09000	-.02920	.27560	.16870
.996	6.280	-.14040	.14410	-.26730	.14180	-.04610	.26590	.17410
.996	8.260	-.12720	.13560	-.35710	.18400	-.06120	.26650	.17710
.996	10.240	-.11820	.13060	-.44610	.22380	-.07530	.26350	.18120
.996	.000	-.15960	.16200	.01580	-.00920	.00270	.26920	.17370
	GRADIENT	.00045	.00081	-.04490	.02369	-.00786	.00113	-.00083

MS56(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77021) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = .000

RUN NO. 35/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.199	-10.360	-.10010	.09110	.41690	-.17690	.07110	.31090	.15810
1.199	-8.380	-.11120	.10550	.33650	-.14650	.05940	.31520	.15550
1.199	-6.280	-.12000	.11940	.25260	-.11140	.04640	.31930	.15430
1.199	-4.170	-.13060	.13290	.16760	-.07360	.03130	.32000	.15520
1.199	-2.110	-.14210	.14430	.08270	-.03500	.01590	.32220	.15500
1.199	.000	-.14560	.15250	.00450	-.00070	.00170	.32360	.15490
1.199	2.090	-.14370	.15220	-.08070	.03790	-.01320	.32190	.15670
1.199	4.150	-.13650	.14590	-.16200	.07530	-.02850	.32100	.15520
1.199	6.260	-.12870	.13840	-.24770	.11320	-.04370	.31880	.15540
1.199	8.380	-.11530	.12740	-.33440	.14960	-.05830	.31370	.15780
1.199	10.390	-.10440	.11600	-.42050	.18240	-.07170	.31150	.15770
1.199	.000	-.14600	.15330	.00390	-.00110	.00060	.32180	.15480
	GRADIENT	-.00064	.00163	-.03947	.01779	-.00713	.00008	.00008

M556(1A1) NAR ATP BL LV (02)(T1)(S1) (R77022) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = 1.500
RUDDER = .000 AILRON = .000

RUN NO. 123/ 0 RN/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.550	-.68990	.23630	.05230	-.02520	.00370	.13990	.11670
.599	-8.580	-.56450	.20080	.05390	-.02580	.00430	.14270	.11780
.599	-6.450	-.43920	.16710	.05000	-.02470	.00440	.14900	.11550
.599	-4.370	-.33370	.13350	.04340	-.02210	.00370	.15720	.10950
.599	-2.260	-.21620	.10230	.04400	-.02150	.00530	.15310	.11290
.599	-.170	-.10800	.07030	.04690	-.02280	.00700	.15230	.10830
.599	1.900	.00480	.03010	.04280	-.02080	.00750	.15240	.10300
.599	3.960	.12470	-.01120	.04220	-.02050	.00840	.14930	.09980
.599	6.140	.25150	-.05200	.04050	-.01870	.00910	.14030	.10120
.599	8.210	.37050	-.09120	.04010	-.01760	.01030	.13760	.09660
.599	10.170	.47690	-.12330	.03820	-.01550	.01060	.13000	.09620
.599	-.170	-.10320	.06810	.04340	-.02110	.00650	.15490	.10590
	GRADIENT	.05465	-.01736	-.00017	.00019	.00056	-.00079	-.00140

MS56(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77023) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	1.500
RUDDER =	.000	AILRON =	.000

RUN NO. 120/ 0 RN/L = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.940	-.68590	.21810	.04780	-.02690	.00390	.18740	.14930
.901	-8.840	-.54530	.18080	.05040	-.02770	.00420	.19140	.14770
.901	-6.640	-.39970	.14100	.04880	-.02640	.00420	.19290	.14430
.901	-4.470	-.27550	.10710	.05070	-.02650	.00490	.19970	.13690
.901	-2.300	-.15880	.07880	.04720	-.02560	.00560	.19450	.13630
.901	-.130	-.04500	.04280	.04650	-.02470	.00660	.18400	.13750
.901	1.990	.09100	-.01940	.04230	-.02180	.00670	.18290	.12550
.901	4.070	.22740	-.09820	.04270	-.02030	.00640	.17360	.12670
.901	6.290	.36350	-.14880	.04270	-.01840	.00710	.16980	.12330
.901	8.430	.49020	-.19520	.04170	-.01590	.00700	.17160	.11990
.901	10.470	.61860	-.23320	.04120	-.01390	.00740	.17200	.12090
.901	-.130	-.03870	.04100	.04750	-.02520	.00670	.18850	.13320
	GRADIENT	.05673	-.02376	-.00098	.00076	.00019	-.00299	-.00146

RUN NO. 122/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-11.050	-.79130	.29860	.04820	-.02720	.00500	.25050	.18490
.999	-8.950	-.64000	.25290	.04930	-.02840	.00510	.25550	.17750
.999	-6.700	-.48360	.20500	.05270	-.02940	.00560	.25800	.17080
.999	-4.500	-.33810	.15650	.05270	-.02840	.00590	.26080	.16560
.999	-2.310	-.20450	.11630	.05140	-.02670	.00630	.26200	.16050
.999	-.130	-.08110	.07980	.04590	-.02390	.00610	.25440	.15910
.999	2.010	.07490	.00770	.04060	-.01970	.00630	.24270	.15510
.999	4.170	.24150	-.08740	.04250	-.02000	.00680	.23420	.15050
.999	6.490	.40000	-.16090	.04570	-.01940	.00700	.23780	.14390
.999	8.550	.53390	-.21340	.04590	-.01940	.00780	.23340	.14150
.999	10.610	.66480	-.25740	.04420	-.01530	.00810	.22530	.14170
.999	-.110	-.07340	.07760	.04710	-.02350	.00620	.24870	.16190
	GRADIENT	.06640	-.02751	-.00144	.00110	.00008	-.00334	-.00164

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77023) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	1.500
RUDDER =	.000	AILRON =	.000

RUN NO. 121/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.200	-11.280	-.75710	.23190	.04470	-.02440	.00500	.30020	.15100
1.200	-9.070	-.57210	.18260	.04210	-.02290	.00450	.30250	.14720
1.200	-6.790	-.41660	.14390	.04050	-.02060	.00350	.30420	.14750
1.200	-4.500	-.27360	.10610	.03580	-.01710	.00360	.30660	.14660
1.200	-2.320	-.14620	.06640	.03320	-.01420	.00380	.31000	.14400
1.200	-.110	-.00930	.01960	.03380	-.01340	.00430	.31040	.14180
1.200	2.090	.13400	-.03490	.03220	-.01210	.00510	.30230	.14170
1.200	4.240	.26320	-.08930	.03280	-.01120	.00550	.29770	.14000
1.200	6.530	.39030	-.13340	.02790	-.00700	.00560	.29700	.13710
1.200	8.690	.50390	-.16350	.02740	-.00510	.00620	.29380	.13450
1.200	10.760	.61730	-.18800	.02740	-.00370	.00630	.28940	.13270
1.200	-.100	-.00170	.01670	.03720	-.01450	.00480	.30870	.14370
	GRADIENT	.06185	-.02248	-.00032	.00064	.00023	-.00116	-.00071

MSS6(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77024) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.6200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

BETA =	.000	CONFIG =	6.000
PHI =	80.000	ORBINC =	.000
RUDDER =	.000	AILRON =	10.000

RUN NO. 74/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.798	-10.630	-.73530	.25980	.04110	-.01100	.02690	.17440	.13850
.798	-8.770	-.59700	.22220	.03850	-.01080	.02720	.17520	.13800
.798	-6.620	-.47540	.18990	.03810	-.01260	.02860	.17390	.13650
.798	-4.470	-.34770	.15240	.04010	-.01440	.02920	.17460	.13390
.798	-2.320	-.23280	.11640	.03820	-.01480	.02890	.17410	.13100
.798	-.190	-.11990	.08110	.03710	-.01280	.02990	.16760	.12870
.798	1.930	.00570	.03820	.03170	-.01030	.03080	.16130	.12740
.798	4.080	.13200	-.01010	.02850	-.00720	.03080	.16110	.12030
.798	6.230	.25430	-.05430	.02830	-.00690	.03250	.15900	.11470
.798	8.320	.36270	-.10100	.03030	-.01010	.03400	.15550	.11100
.798	10.350	.49010	-.13130	.03420	-.01220	.03150	.15100	.11130
.798	-.180	-.11230	.07790	.03410	-.01090	.02950	.16700	.13040
	GRADIENT	.05611	-.01889	-.00139	.00088	.00024	-.00186	-.00144

RUN NO. 75/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-10.960	-.76780	.28690	.03540	-.01250	.02480	.20510	.16280
.903	-8.860	-.62940	.25000	.03860	-.01440	.02590	.21070	.15700
.903	-6.670	-.49050	.21160	.04230	-.01660	.02660	.21320	.15410
.903	-4.470	-.35570	.17300	.04490	-.01830	.02720	.21620	.14790
.903	-2.310	-.23680	.13710	.04450	-.02020	.02740	.21090	.14370
.903	-.160	-.11980	.10050	.04070	-.01890	.02820	.19890	.14420
.903	1.970	.01020	.04410	.03750	-.01600	.02890	.19290	.13780
.903	4.090	.15250	-.03760	.03890	-.01590	.02920	.18910	.13570
.903	6.270	.27930	-.08500	.03780	-.01560	.03050	.18490	.13300
.903	8.430	.41290	-.13060	.04060	-.01720	.03120	.18060	.12750
.903	10.450	.52690	-.16230	.04270	-.01890	.03050	.17390	.12830
.903	-.150	-.11450	.09760	.03940	-.01810	.02820	.19890	.14280
	GRADIENT	.05903	-.02401	-.00089	.00042	.00026	-.00338	-.00142

MS56(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77024) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 76/ 0 RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.002	-11.080	-.86420	.36240	.04100	-.01650	.02910	.27530	.19700
1.002	-8.960	-.71560	.31810	.04310	-.01950	.02890	.27640	.19070
1.002	-6.740	-.56730	.27590	.04570	-.02190	.02930	.27570	.18600
1.002	-4.520	-.41840	.22420	.04670	-.02300	.02910	.27660	.18010
1.002	-2.350	-.28360	.18060	.04660	-.02160	.02850	.27830	.17530
1.002	-.170	-.15610	.13910	.03920	-.01730	.02810	.26960	.17380
1.002	2.000	-.01070	.07450	.03670	-.01580	.02810	.25550	.16910
1.002	4.150	.14070	-.00320	.03810	-.01710	.02890	.25310	.15920
1.002	6.340	.29510	-.08100	.04370	-.02100	.03110	.24280	.15570
1.002	8.530	.43350	-.12870	.04700	-.02460	.03200	.24230	.14840
1.002	10.570	.55920	-.16840	.04920	-.02520	.03200	.23630	.14550
	GRADIENT	.06414	-.02585	-.00125	.00081	-.00004	-.00322	-.00221

RUN NO. 77/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.200	-11.300	-.82130	.28700	.03550	-.01300	.02430	.31590	.16380
1.200	-9.080	-.63900	.23930	.03180	-.01190	.02350	.32010	.15820
1.200	-6.810	-.48400	.19970	.03310	-.01280	.02410	.32080	.15830
1.200	-4.540	-.33910	.15990	.03260	-.01320	.02520	.32360	.15550
1.200	-2.330	-.20430	.11630	.03150	-.01300	.02590	.32390	.15230
1.200	-.140	-.06960	.06940	.03150	-.01250	.02650	.31960	.15060
1.200	2.040	.06690	.01730	.03210	-.01350	.02730	.31220	.14700
1.200	4.260	.20540	-.04240	.03470	-.01540	.02710	.30580	.14570
1.200	6.450	.33310	-.08850	.03650	-.01730	.02590	.30540	.13850
1.200	8.630	.45200	-.12060	.03860	-.01920	.02600	.30070	.13640
1.200	10.740	.56040	-.14210	.04050	-.01970	.02590	.29450	.13420
1.200	-.110	-.06440	.06900	.03170	-.01190	.02660	.31980	.15150
	GRADIENT	.06191	-.02292	.00022	-.00022	.00024	-.00215	-.00113

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77024) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 169/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.464	-11.310	-.78890	.25880	.05140	-.02750	.02150	.32520	.13400
1.464	-9.130	-.60400	.20050	.05060	-.02900	.02240	.32560	.12850
1.464	-6.810	-.43250	.15150	.04710	-.02830	.02310	.32610	.12680
1.464	-4.580	-.29370	.11520	.04610	-.02780	.02340	.32700	.12720
1.464	-2.370	-.16830	.07850	.04560	-.02660	.02310	.32840	.12590
1.464	-.160	-.03990	.03650	.04820	-.02840	.02400	.32770	.12500
1.464	2.050	.08640	-.00640	.05120	-.02930	.02410	.32290	.12500
1.464	4.270	.20650	-.04600	.05050	-.02880	.02320	.32490	.12280
1.464	6.520	.32870	-.07490	.04880	-.02740	.02240	.32710	.12010
1.464	8.710	.43740	-.09670	.04760	-.02700	.02190	.32580	.11610
1.464	10.800	.54010	-.11300	.04330	-.02590	.02120	.31640	.11520
1.464	-.120	-.03040	.03430	.04870	-.02790	.02380	.32890	.12510
	GRADIENT	.05674	-.01841	.00065	-.00021	.00003	-.00044	-.00044

RUN NO. 166/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.963	-11.340	-.69420	.20280	.03080	-.01450	.01340	.31290	.08740
1.963	-9.170	-.53900	.15130	.03470	-.01720	.01310	.30880	.08680
1.963	-6.890	-.38910	.10940	.03340	-.01450	.01290	.30520	.08710
1.963	-4.610	-.25470	.07280	.03340	-.01450	.01310	.30670	.08690
1.963	-2.370	-.13600	.04650	.03430	-.01530	.01280	.30630	.08740
1.963	-.170	-.02780	.02200	.03660	-.01820	.01340	.31200	.08580
1.963	2.050	.07560	-.00340	.03710	-.01760	.01370	.30750	.08480
1.963	4.250	.17730	-.02740	.03770	-.01710	.01410	.30450	.08460
1.963	6.530	.28690	-.04840	.04190	-.01800	.01470	.30360	.08660
1.963	8.780	.39870	-.06670	.04730	-.01840	.01540	.29690	.08740
1.963	10.890	.49650	-.07710	.05540	-.02380	.01660	.29100	.08820
1.963	-.130	-.02340	.02200	.03530	-.01700	.01310	.30580	.08350
	GRADIENT	.04859	-.01131	.00051	-.00034	.00013	-.00014	-.00032

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77024) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 16/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.600	-.54190	.12340	.02850	-.01040	.00880	.28740	.03070
2.990	-8.620	-.44160	.09800	.02500	-.00940	.00810	.27920	.03120
2.990	-6.480	-.33370	.07280	.02630	-.01060	.00740	.27480	.03090
2.990	-4.370	-.22930	.05160	.02580	-.01000	.00720	.27490	.03100
2.990	-2.260	-.13420	.04040	.02620	-.00920	.00720	.27650	.03040
2.990	-.140	-.04290	.03360	.02670	-.00910	.00760	.27620	.03060
2.990	1.950	.04060	.02690	.02990	-.01100	.00840	.27240	.03110
2.990	4.050	.12630	.01550	.02950	-.00900	.00910	.26470	.03080
2.990	6.190	.21760	.00130	.03180	-.00930	.00920	.26000	.03010
2.990	8.260	.30860	-.01180	.03500	-.01210	.00970	.25370	.03040
2.990	10.280	.40120	-.02930	.03430	-.01220	.00970	.24610	.03180
	GRADIENT	.04209	-.00407	.00053	.00001	.00024	-.00116	.00001

RUN NO. 17/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.320	-.46780	.10850	.02480	-.00790	.00570	.26730	.01250
4.959	-8.390	-.38460	.08800	.01700	-.00470	.00520	.25200	.01290
4.959	-6.310	-.29160	.06970	.02370	-.00850	.00510	.24140	.01300
4.959	-4.260	-.21130	.05700	.02560	-.00870	.00450	.23610	.01330
4.959	-2.200	-.12770	.04570	.02600	-.00880	.00450	.23340	.01370
4.959	-.140	-.05370	.03900	.02470	-.00800	.00430	.22790	.01370
4.959	1.920	.01690	.03420	.02340	-.00830	.00520	.22040	.01380
4.959	3.950	.08460	.02650	.02380	-.00690	.00500	.20780	.01320
4.959	6.030	.16160	.01030	.02080	-.00600	.00500	.20310	.01270
4.959	8.050	.23850	-.00120	.02270	-.00810	.00550	.19730	.01230
4.959	10.030	.30930	-.01230	.02470	-.00910	.00570	.19150	.01190
	GRADIENT	.03585	-.00353	-.00030	.00020	.00008	-.00339	-.00000

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77025) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 81/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.801	-10.190	.00620	.00290	.38590	-.17700	.08910	.13950	.15000
.801	-8.230	-.01240	.01790	.32270	-.15370	.08080	.14750	.14220
.801	-6.150	-.02120	.03110	.24450	-.11790	.06960	.15240	.13740
.801	-4.110	-.03590	.04410	.16900	-.08020	.05730	.15500	.13650
.801	-2.060	-.04290	.05350	.08960	-.04000	.04330	.16440	.12890
.801	-.010	-.04720	.06040	.00340	.00320	.02850	.16760	.12780
.801	2.030	-.04830	.06190	-.08090	.04470	.01280	.16540	.12990
.801	4.100	-.04790	.06160	-.16460	.08750	-.00270	.16600	.12790
.801	6.160	-.04470	.05800	-.24520	.12860	-.01550	.15970	.13380
.801	8.190	-.03580	.05190	-.31500	.16010	-.02580	.15610	.13950
.801	10.130	-.02710	.04550	-.38790	.19000	-.03660	.15030	.14870
.801	-.010	-.04700	.05940	.00020	.00430	.02710	.16860	.12660
	GRADIENT	-.00143	.00211	-.04084	.02048	-.00734	.00112	-.00079

RUN NO. 80/ 0 RN/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.210	-.00870	.01130	.40830	-.19530	.09210	.17480	.16100
.898	-8.240	-.01320	.02230	.33830	-.16880	.08260	.18100	.15280
.898	-6.170	-.03310	.04110	.25470	-.13140	.06950	.18730	.14690
.898	-4.120	-.04710	.05850	.17030	-.08840	.05600	.19040	.14420
.898	-2.060	-.05970	.07310	.08510	-.04500	.04070	.20080	.13580
.898	-.010	-.06190	.08150	.00420	-.00380	.02580	.20170	.13740
.898	2.060	-.06530	.08490	-.08800	.04240	.00910	.20160	.13800
.898	4.110	-.06870	.08680	-.17530	.08870	-.00720	.20230	.13960
.898	6.210	-.06820	.08620	-.25950	.13070	-.02110	.20180	.14390
.898	8.260	-.06300	.07720	-.33710	.16720	-.03280	.19580	.15040
.898	10.190	-.06320	.07460	-.40600	.19460	-.04240	.18890	.15610
.898	.000	-.06410	.07950	.00020	.00240	.02410	.20030	.13810
	GRADIENT	-.00237	.00332	-.04200	.02146	-.00768	.00120	-.00034

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77025) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 79/ 0 RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.260	-.02860	.05400	.45290	-.22320	.10350	.24870	.18030
.998	-8.290	-.04640	.06960	.36710	-.18330	.08960	.25430	.17650
.998	-6.210	-.06170	.08370	.27230	-.13820	.07370	.25950	.17260
.998	-4.130	-.07530	.09940	.18330	-.09230	.05750	.26350	.17010
.998	-2.060	-.09390	.11530	.09080	-.04470	.04100	.26750	.16890
.998	.000	-.10100	.12400	.00120	.00020	.02470	.26860	.16910
.998	2.030	-.10070	.12460	-.08950	.04660	.00780	.26810	.16630
.998	4.110	-.09820	.11970	-.17910	.09470	-.00890	.26870	.16550
.998	6.210	-.09320	.11640	-.27430	.14650	-.02580	.26210	.16910
.998	8.280	-.08740	.11240	-.36670	.19050	-.04200	.26350	.17220
.998	10.220	-.08650	.11290	-.45480	.23060	-.05610	.25970	.17690
.998	.000	-.10230	.12430	.00300	-.00020	.02390	.26440	.16900
	GRADIENT	-.00256	.00243	-.04400	.02262	-.00807	.00054	-.00057

RUN NO. 78/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.198	-10.350	.00620	.01250	.42530	-.19020	.09660	.30520	.15700
1.198	-8.350	-.00170	.02480	.34260	-.15790	.08520	.31090	.15240
1.198	-6.260	-.01680	.04050	.25620	-.12050	.07160	.31480	.15000
1.198	-4.160	-.02830	.05690	.17070	-.08000	.05580	.31590	.15150
1.198	-2.060	-.03980	.06970	.08290	-.03840	.03880	.31660	.15220
1.198	-.020	-.04610	.07640	-.00220	.00180	.02320	.31860	.15170
1.198	2.070	-.04790	.08060	-.09100	.04540	.00550	.31840	.15230
1.198	4.150	-.04880	.07980	-.18000	.08860	-.01230	.31760	.15070
1.198	6.250	-.04340	.07450	-.26730	.13000	-.02930	.31460	.15250
1.198	8.340	-.03630	.06890	-.35240	.16700	-.04510	.31190	.15440
1.198	10.330	-.03930	.06660	-.43610	.19910	-.05910	.30890	.15600
1.198	.000	-.04600	.07790	-.00610	.00370	.02160	.31760	.15270
	GRADIENT	-.00237	.00274	-.04218	.02029	-.00817	.00025	-.00007

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77025) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.6200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 168/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.350	.01970	-.01170	.43590	-.19830	.08970	.32730	.12310
1.462	-8.360	.01930	-.00610	.35180	-.16420	.07850	.32770	.12280
1.462	-6.240	.01680	.00080	.26710	-.12920	.06500	.32700	.12370
1.462	-4.170	.01030	.00960	.18300	-.09280	.05060	.32700	.12460
1.462	-2.090	.00540	.01850	.10040	-.05360	.03480	.32860	.12400
1.462	.000	.00250	.02330	.01480	-.01310	.01920	.33160	.12150
1.462	2.070	.00360	.02300	-.07500	.02930	.00290	.33360	.12040
1.462	4.170	.00660	.02050	-.15750	.06750	-.01230	.33360	.12080
1.462	6.290	.00950	.01680	-.24470	.10620	-.02700	.33170	.12190
1.462	8.370	.00770	.01620	-.32720	.13920	-.04020	.33120	.12160
1.462	10.390	.00260	.01910	-.41550	.17230	-.05300	.32710	.12450
1.462	.010	.00240	.02360	.01040	-.01190	.01730	.33090	.12150
	GRADIENT	-.00044	.00126	-.04109	.01936	-.00757	.00087	-.00054

RUN NO. 167/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-10.490	-.01380	.01660	.42220	-.16850	.07170	.31070	.09180
1.965	-8.460	-.01060	.01830	.33080	-.13130	.05760	.30800	.08920
1.965	-6.340	-.00470	.01650	.24470	-.09830	.04500	.30610	.09060
1.965	-4.230	-.00270	.01720	.16370	-.06780	.03400	.30710	.09280
1.965	-2.130	.00020	.02090	.08360	-.03790	.02200	.30910	.09010
1.965	-.010	.00070	.02070	.00390	-.00460	.00940	.31200	.08740
1.965	2.100	-.00030	.02520	-.07800	.03110	-.00300	.30620	.08820
1.965	4.190	-.00120	.02540	-.15700	.06120	-.01410	.30840	.09020
1.965	6.480	-.00580	.02670	-.24820	.09740	-.02670	.30680	.08850
1.965	8.480	-.01330	.03040	-.33290	.12970	-.03840	.30340	.08640
1.965	10.480	-.01500	.03220	-.42090	.16450	-.05140	.30310	.08700
1.965	.010	.00280	.01990	-.00250	-.00070	.00750	.30490	.08480
	GRADIENT	.00012	.00098	-.03811	.01552	-.00575	-.00001	-.00034

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77025) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 15/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.200	-.02590	.02380	.35830	-.11690	.04650	.27460	.04500
2.990	-8.270	-.02470	.02560	.29120	-.09190	.03760	.27100	.04590
2.990	-6.180	-.02030	.02620	.21920	-.06900	.02930	.26810	.04510
2.990	-4.120	-.02340	.03060	.14760	-.04620	.02170	.26470	.04420
2.990	-2.060	-.02500	.03170	.07470	-.02480	.01360	.26310	.04280
2.990	.000	-.02630	.03410	-.00180	-.00040	.00500	.26240	.04330
2.990	2.060	-.02570	.03630	-.07570	.02300	-.00360	.25980	.04390
2.990	4.110	-.02710	.03650	-.14760	.04500	-.01200	.26020	.04470
2.990	6.250	-.02470	.03490	-.22320	.06910	-.01990	.26420	.04490
2.990	8.250	-.02790	.03750	-.28940	.08900	-.02750	.26750	.04510
2.990	10.240	-.03070	.03910	-.36000	.11390	-.03640	.26990	.04450
	GRADIENT	-.00039	.00080	-.03600	.01119	-.00411	-.00060	.00010

RUN NO. 14/ 0 RN/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.040	-.02760	.02740	.30600	-.10840	.03350	.24720	.01180
4.959	-8.140	-.03080	.02850	.24310	-.07960	.02600	.23690	.01240
4.959	-6.090	-.03090	.03180	.17710	-.05010	.01900	.22830	.01230
4.959	-4.060	-.03820	.03470	.11400	-.02810	.01250	.22400	.01270
4.959	-2.030	-.03650	.03460	.05890	-.01430	.00800	.22350	.01200
4.959	.000	-.04120	.03880	.00370	-.00210	.00300	.22370	.01190
4.959	2.030	-.03620	.04080	-.05440	.01340	-.00180	.22200	.01230
4.959	4.040	-.04090	.04510	-.10960	.02640	-.00680	.22100	.01290
4.959	6.110	-.03890	.04260	-.17420	.04740	-.01260	.22380	.01290
4.959	8.120	-.04230	.04530	-.24020	.07610	-.01930	.23040	.01350
4.959	10.080	-.04220	.04620	-.30790	.10800	-.02680	.24020	.01310
	GRADIENT	-.00025	.00133	-.02767	.00675	-.00239	-.00037	.00003

M556(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77026) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 84/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.540	-.74610	.28890	.05680	-.02580	.02980	.14650	.13120
.600	-8.570	-.63320	.25850	.06060	-.02770	.03060	.14680	.13400
.600	-6.470	-.50980	.22140	.05990	-.02990	.03100	.15020	.13240
.600	-4.360	-.39290	.18590	.06150	-.03130	.03120	.15760	.12610
.600	-2.290	-.27310	.14760	.05950	-.03050	.03110	.16030	.12230
.600	-.180	-.16330	.11470	.05790	-.02830	.03140	.15590	.12290
.600	1.890	-.04630	.07390	.05400	-.02560	.03200	.15140	.11970
.600	3.960	.06880	.03690	.05350	-.02420	.03270	.15260	.11230
.600	6.090	.19060	-.00170	.04950	-.02220	.03450	.14580	.11100
.600	8.190	.29670	-.03800	.05120	-.02550	.03680	.13860	.10990
.600	10.160	.41150	-.07400	.05060	-.02510	.03810	.13080	.10750
.600	-.180	-.16370	.11500	.05690	-.02800	.03150	.15590	.12420
	GRADIENT	.05524	-.01785	-.00103	.00092	.00019	-.00091	-.00145

RUN NO. 85/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.630	-.78700	.29730	.05120	-.02190	.02650	.18540	.14520
.802	-8.790	-.64770	.25970	.05050	-.02260	.02620	.18760	.14070
.802	-6.640	-.52540	.22910	.05330	-.02540	.02820	.18840	.13900
.802	-4.470	-.40240	.19300	.05760	-.02990	.02910	.18550	.14000
.802	-2.340	-.28810	.15950	.05730	-.03070	.02910	.18350	.13740
.802	-.220	-.17260	.12390	.05760	-.03050	.02970	.17440	.13830
.802	1.920	-.05790	.08730	.05580	-.02920	.03060	.17090	.13440
.802	4.020	.06520	.03870	.04940	-.02590	.03060	.17050	.12740
.802	6.210	.18970	-.00390	.04790	-.02460	.03130	.16800	.12100
.802	8.320	.31500	-.04990	.04950	-.02630	.03330	.16110	.11690
.802	10.340	.43180	-.08960	.05230	-.02800	.03420	.15410	.11540
.802	-.200	-.17110	.12240	.05380	-.02820	.02910	.17510	.13630
	GRADIENT	.05487	-.01793	-.00084	.00045	.00021	-.00201	-.00133

M556(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77027) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = .000
RUDDER = .000 AILRON = 10.000

RUN NO. 83/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.090	-.04020	.03490	.37650	-.17440	.08250	.13060	.13870
.600	-8.150	-.05410	.04810	.31640	-.15070	.07570	.13760	.13200
.600	-6.120	-.06480	.06120	.24520	-.11820	.06650	.14830	.12000
.600	-4.070	-.07410	.07180	.17180	-.08340	.05470	.15280	.12030
.600	-2.080	-.08960	.08450	.09860	-.04850	.04250	.16190	.11300
.600	.000	-.09380	.09070	.02430	-.01440	.02940	.16240	.11370
.600	2.020	-.09140	.09320	-.05080	.02090	.01620	.16030	.11550
.600	4.060	-.09360	.09400	-.12360	.05500	.00370	.15600	.11880
.600	6.130	-.09590	.09560	-.20160	.09320	-.00950	.15230	.12210
.600	8.160	-.08280	.08880	-.26730	.12240	-.01930	.14590	.12910
.600	10.060	-.07650	.08340	-.33140	.14900	-.02760	.14190	.13550
.600	.000	-.09160	.09060	.02310	-.01270	.02810	.15960	.11680
	GRADIENT	-.00200	.00261	-.03635	.01700	-.00630	.00023	-.00002

RUN NO. 82/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.180	-.04960	.04770	.40300	-.18970	.08570	.15200	.15490
.799	-8.220	-.06240	.06010	.33890	-.16690	.07790	.16120	.14440
.799	-6.150	-.07150	.07250	.26430	-.13280	.06780	.16430	.13820
.799	-4.100	-.08490	.08490	.18690	-.09420	.05570	.16570	.13810
.799	-2.080	-.09800	.09770	.10840	-.05550	.04240	.17450	.13170
.799	-.030	-.10110	.10380	.02950	-.01750	.02900	.17930	.12900
.799	2.010	-.10210	.10790	-.05270	.02320	.01450	.17960	.13070
.799	4.080	-.10490	.10770	-.13260	.06230	-.00010	.17940	.12790
.799	6.170	-.09730	.10140	-.21330	.10440	-.01250	.17360	.13410
.799	8.220	-.08960	.09560	-.29130	.14020	-.02310	.16590	.14670
.799	10.140	-.07820	.08670	-.36440	.17030	-.03350	.16530	.15010
.799	.000	-.10150	.10550	.02610	-.01520	.02710	.18010	.13120
	GRADIENT	-.00215	.00272	-.03912	.01915	-.00682	.00159	-.00104

MS56(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77028) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 66/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-10.810	-.74630	.27180	.10480	-.07820	.02800	.17230	.14180
.803	-8.780	-.60960	.22930	.10230	-.07640	.02660	.17800	.13680
.803	-6.620	-.47200	.18980	.09920	-.07450	.02640	.17380	.13690
.803	-4.450	-.34690	.15170	.09960	-.07470	.02660	.17310	.13510
.803	-2.330	-.22830	.11640	.10020	-.07450	.02710	.16920	.13490
.803	-.190	-.11880	.08230	.09710	-.07270	.02720	.16030	.13310
.803	1.940	.00630	.03910	.09680	-.07180	.02840	.15770	.12680
.803	4.070	.13580	-.00960	.09410	-.06870	.02800	.15490	.12220
.803	6.240	.25920	-.05460	.09060	-.06530	.02840	.15300	.11600
.803	8.340	.38200	-.10120	.09100	-.06580	.02950	.15010	.11060
.803	10.370	.50080	-.13910	.08710	-.06190	.02840	.14350	.10900
.803	-.180	-.11220	.08000	.09900	-.07300	.02740	.16040	.13300
	GRADIENT	.05631	-.01877	-.00068	.00069	.00019	-.00225	-.00159

RUN NO. 67/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.950	-.75730	.28010	.09980	-.07850	.02840	.20090	.16250
.902	-8.860	-.61880	.24240	.09870	-.07710	.02760	.20830	.15620
.902	-6.690	-.47700	.20270	.10020	-.07600	.02720	.20750	.15310
.902	-4.480	-.34400	.16530	.09820	-.07400	.02700	.21140	.14790
.902	-2.350	-.22780	.12970	.09780	-.07350	.02700	.20430	.14370
.902	-.150	-.10980	.09500	.09300	-.07080	.02680	.19210	.14520
.902	1.970	.02250	.03220	.08840	-.06690	.02640	.18970	.13360
.902	4.080	.16140	-.04300	.08990	-.06540	.02630	.18230	.13390
.902	6.260	.29490	-.09070	.08630	-.06130	.02610	.17790	.12740
.902	8.420	.43030	-.14250	.08510	-.05870	.02560	.17650	.12470
.902	10.450	.54230	-.17360	.08460	-.05690	.02530	.16940	.12240
.902	-.150	-.10560	.09360	.09490	-.07110	.02700	.19530	.14260
	GRADIENT	.05880	-.02395	-.00122	.00111	-.00009	-.00340	-.00177

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77028) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 68/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-11.070	-.85740	.36350	.10460	-.08180	.03020	.27270	.19080
.998	-8.940	-.70800	.31800	.10140	-.08040	.03010	.27120	.18750
.998	-6.730	-.55790	.26920	.10270	-.07970	.02940	.27270	.17950
.998	-4.510	-.40990	.22090	.10060	-.07810	.02880	.27290	.17260
.998	-2.320	-.26870	.17260	.09980	-.07590	.02840	.27270	.16690
.998	-.160	-.14780	.13710	.09390	-.07260	.02810	.26230	.16680
.998	2.010	.00380	.07200	.08860	-.06850	.02800	.25070	.16130
.998	4.200	.15510	-.00450	.08390	-.06550	.02690	.24660	.15570
.998	6.380	.31650	-.08460	.07870	-.06320	.02670	.23720	.15070
.998	8.540	.46190	-.14070	.07990	-.06280	.02710	.23690	.14840
.998	10.590	.59280	-.18780	.07830	-.05810	.02650	.22740	.14690
.998	-.130	-.13690	.13250	.09330	-.07230	.02780	.25840	.16540
	GRADIENT	.06449	-.02536	-.00205	.00150	-.00019	-.00343	-.00181

RUN NO. 69/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.197	-11.260	-.82050	.29240	.08680	-.06800	.02590	.31410	.15750
1.197	-9.070	-.63840	.24300	.08260	-.06440	.02440	.31710	.15310
1.197	-6.800	-.46510	.20520	.08090	-.06270	.02330	.31720	.15180
1.197	-4.530	-.34560	.16900	.07620	-.05810	.02210	.31710	.15140
1.197	-2.320	-.21050	.12510	.07360	-.05510	.02230	.31660	.14940
1.197	-.110	-.07340	.07800	.07170	-.05190	.02260	.31330	.14890
1.197	2.070	.06620	.02360	.07160	-.05070	.02300	.30480	.14650
1.197	4.270	.20090	-.03560	.06930	-.04780	.02170	.30450	.14220
1.197	6.470	.32690	-.08030	.06720	-.04520	.02190	.29940	.13780
1.197	8.660	.44560	-.11190	.06600	-.04290	.02190	.29580	.13590
1.197	10.750	.56010	-.13830	.06390	-.03990	.02210	.28840	.13580
1.197	-.100	-.07000	.07810	.07540	-.05320	.02270	.31370	.14800
	GRADIENT	.06229	-.02322	-.00071	.00114	-.00000	-.00168	-.00097

MS56(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77028) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 170/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.464	-11.310	-.80080	.27040	.09230	-.07150	.02310	.32430	.12960
1.464	-9.120	-.61380	.21150	.08790	-.06790	.02270	.32460	.12440
1.464	-6.800	-.43990	.16130	.08030	-.06290	.02210	.32240	.12500
1.464	-4.580	-.30160	.12330	.07680	-.05810	.02110	.32310	.12570
1.464	-2.360	-.17400	.08650	.07210	-.05300	.02040	.32230	.12600
1.464	-.130	-.04940	.04680	.07150	-.05040	.01970	.32130	.12460
1.464	2.040	.07700	.00500	.07050	-.04820	.01970	.31850	.12280
1.464	4.250	.19940	-.03660	.06680	-.04420	.01870	.32050	.12080
1.464	6.490	.31660	-.06480	.06200	-.03970	.01770	.32250	.11910
1.464	8.690	.42790	-.08560	.06050	-.03770	.01760	.32030	.11710
1.464	10.810	.52980	-.10030	.05410	-.03520	.01670	.31230	.11600
1.464	-.120	-.04000	.04430	.07210	-.05010	.01970	.32240	.12450
	GRADIENT	.05680	-.01828	-.00098	.00148	-.00025	-.00041	-.00059

RUN NO. 165/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.964	-11.330	-.69340	.20570	.05620	-.04390	.01460	.30970	.08610
1.964	-9.170	-.54090	.15530	.06030	-.04480	.01410	.30600	.08760
1.964	-6.910	-.39160	.11190	.05520	-.03940	.01330	.30460	.08640
1.964	-4.630	-.25560	.07530	.05390	-.03660	.01300	.30060	.08680
1.964	-2.380	-.13680	.04860	.05310	-.03530	.01280	.30310	.08600
1.964	-.170	-.03180	.02570	.05300	-.03490	.01270	.30910	.08360
1.964	2.030	.07290	.00080	.05100	-.03220	.01270	.30530	.08370
1.964	4.260	.17270	-.02180	.05220	-.03050	.01260	.30070	.08490
1.964	6.710	.28750	-.04280	.05250	-.02880	.01250	.30040	.08650
1.964	8.760	.38920	-.05700	.05750	-.02690	.01310	.29640	.08600
1.964	10.890	.48590	-.06730	.06440	-.03180	.01410	.29030	.08710
1.964	-.130	-.02530	.02550	.05330	-.03390	.01260	.30180	.08230
	GRADIENT	.04806	-.01091	-.00025	.00069	-.00004	.00011	-.00027

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77028) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.6200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 19/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.590	-.54320	.12570	.04410	-.02860	.00910	.27020	.04680
2.990	-8.610	-.44230	.10060	.03880	-.02510	.00870	.26180	.04670
2.990	-6.480	-.33460	.07550	.03830	-.02440	.00830	.25740	.04670
2.990	-4.370	-.22830	.05330	.03780	-.02310	.00780	.25680	.04690
2.990	-2.260	-.13500	.04120	.03630	-.02130	.00750	.25750	.04670
2.990	-.140	-.04360	.03440	.03770	-.02060	.00770	.25630	.04660
2.990	1.950	.04000	.02620	.03720	-.02010	.00780	.25370	.04660
2.990	4.050	.12380	.01420	.03760	-.01780	.00820	.24710	.04600
2.990	6.200	.21700	.00260	.04000	-.01780	.00870	.24160	.04550
2.990	8.260	.30430	-.01060	.04040	-.01890	.00890	.23720	.04470
2.990	10.280	.39930	-.02690	.03890	-.01730	.00900	.23170	.04400
	GRADIENT	.04177	-.00433	.00002	.00056	.00005	-.00110	-.00009

RUN NO. 18/ 0 RN/L = 4.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.320	-.46260	.10720	.03240	-.01990	.00590	.26370	.01260
4.959	-8.390	-.37900	.08740	.02470	-.01600	.00550	.24850	.01310
4.959	-6.310	-.28910	.06940	.02820	-.01680	.00490	.23810	.01320
4.959	-4.260	-.21200	.05860	.02850	-.01690	.00450	.23250	.01370
4.959	-2.200	-.12820	.04720	.03050	-.01560	.00430	.23020	.01370
4.959	-.150	-.06060	.04190	.02600	-.01300	.00350	.22440	.01370
4.959	1.920	.01320	.03600	.02790	-.01440	.00330	.21590	.01370
4.959	3.920	.08110	.02750	.02670	-.01130	.00380	.20450	.01320
4.959	6.060	.16450	.01000	.02380	-.00970	.00320	.19770	.01280
4.959	8.090	.23530	.00130	.02580	-.00950	.00410	.19320	.01260
4.959	10.040	.30930	-.00920	.02610	-.00930	.00410	.18760	.01270
	GRADIENT	.03553	-.00358	-.00030	.00060	-.00012	-.00343	-.00005

M556(1A1) NAR ATP BL LV (O1)(T1)(S1) (R77029) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.6200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 60.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 73/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.800	-10.160	-.00960	.01830	.43120	-.21830	.07690	.13580	.15380
.800	-8.200	-.01790	.02690	.36270	-.19380	.06840	.14220	.14500
.800	-6.140	-.02900	.03930	.29960	-.17000	.06120	.14670	.14010
.800	-4.060	-.03830	.04680	.22980	-.13990	.05360	.15130	.13420
.800	-2.040	-.03900	.05300	.14660	-.09670	.03940	.15770	.12890
.800	.000	-.04040	.05890	.06760	-.05780	.02580	.16340	.12730
.800	2.070	-.03710	.05860	-.01900	-.01610	.01100	.16310	.12690
.800	4.120	-.03670	.05790	-.09770	.02320	-.00240	.15850	.12930
.800	6.180	-.02870	.04960	-.18300	.06900	-.01750	.15130	.13190
.800	8.230	-.01330	.03590	-.25970	.10760	-.03040	.14360	.13800
.800	10.160	-.00760	.02720	-.33730	.14170	-.04260	.13900	.14410
.800	.020	-.03870	.05790	.06360	-.05550	.02450	.16050	.12850
	GRADIENT	.00025	.00135	-.04009	.01987	-.00686	.00096	-.00057

RUN NO. 72/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.904	-10.200	-.02350	.02700	.44170	-.22600	.07880	.17310	.16460
.904	-8.220	-.02960	.03480	.37020	-.20090	.06990	.18060	.15490
.904	-6.140	-.02910	.04250	.30360	-.17790	.06370	.18600	.14640
.904	-4.080	-.04340	.05730	.22220	-.13930	.05240	.19060	.14130
.904	-2.020	-.04810	.06820	.13570	-.09490	.03800	.19510	.13850
.904	.040	-.05420	.07540	.05180	-.05280	.02390	.19880	.13630
.904	2.080	-.04980	.07380	-.03500	-.01040	.00950	.19760	.13880
.904	4.160	-.04580	.06940	-.12420	.03450	-.00630	.19220	.14410
.904	6.250	-.03210	.05700	-.20940	.07870	-.02140	.18520	.14540
.904	8.310	-.02480	.04670	-.29070	.12100	-.03610	.18090	.14880
.904	10.250	-.01620	.03400	-.36760	.15480	-.04810	.17350	.15140
.904	.030	-.05890	.07610	.05690	-.05200	.02290	.19750	.13920
	GRADIENT	-.00031	.00144	-.04188	.02096	-.00708	.00027	.00029

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77029) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 71/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.200	-.03850	.06940	.49600	-.26520	.09510	.24140	.18530
.999	-8.240	-.04840	.07730	.41090	-.22970	.08400	.24670	.17690
.999	-6.160	-.06040	.08910	.32450	-.19110	.07120	.25190	.17090
.999	-4.070	-.07300	.10100	.23340	-.14470	.05550	.25770	.16630
.999	-2.020	-.08060	.11170	.14340	-.09730	.04010	.26170	.16300
.999	.020	-.08530	.11870	.05740	-.05480	.02490	.26240	.16330
.999	2.110	-.08240	.11620	-.03670	-.00770	.00870	.26320	.16240
.999	4.190	-.07400	.10740	-.13010	.04240	-.00860	.26240	.16260
.999	6.260	-.06420	.09520	-.22400	.09340	-.02560	.25210	.16810
.999	8.320	-.04900	.08340	-.32090	.14080	-.04300	.25280	.16860
.999	10.270	-.04070	.07510	-.40860	.18190	-.05830	.24650	.17310
.999	.040	-.08710	.11760	.05080	-.05150	.02290	.26320	.15970
	GRADIENT	-.00018	.00083	-.04393	.02246	-.00773	.00053	-.00039

RUN NO. 70/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.198	-10.300	-.01240	.03360	.45240	-.21860	.08980	.30330	.15300
1.198	-8.320	-.02160	.04630	.37290	-.18850	.07890	.30650	.15090
1.198	-6.240	-.03260	.05910	.28970	-.15340	.06600	.31110	.14830
1.198	-4.120	-.03990	.07010	.20430	-.11400	.05060	.31220	.14670
1.198	-2.060	-.04850	.08030	.12040	-.07560	.03500	.31250	.14880
1.198	.040	-.05270	.08650	.03650	-.03720	.01860	.31360	.14740
1.198	2.120	-.05070	.08610	-.04960	.00320	.00190	.31190	.14920
1.198	4.170	-.04620	.07970	-.13570	.04530	-.01570	.31250	.14710
1.198	6.310	-.03230	.06720	-.22260	.08670	-.03250	.30840	.14830
1.198	8.380	-.02080	.05350	-.31420	.12840	-.04880	.30190	.15170
1.198	10.410	-.00890	.04030	-.40050	.16210	-.06260	.29840	.15150
1.198	.030	-.05380	.08690	.03640	-.03670	.01700	.31270	.14890
	GRADIENT	-.00071	.00121	-.04094	.01914	-.00798	.00000	-.00013

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77029) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	8.000
PHI =	80.000	ORBINC =	.000
RUDDER =	15.000	AILRON =	.000

RUN NO. 171/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.460	-10.330	-.00350	.01240	.45090	-.21310	.08340	.32020	.12600
1.460	-8.340	.00070	.01330	.36750	-.18150	.07240	.32170	.12330
1.460	-6.220	.00220	.01630	.28530	-.14840	.06020	.32270	.12260
1.460	-4.140	-.00210	.02220	.20240	-.11270	.04670	.32480	.12130
1.460	-2.060	-.00190	.02790	.11970	-.07400	.03110	.32700	.11990
1.460	.010	-.00500	.03200	.03670	-.03520	.01560	.32720	.11980
1.460	2.120	-.00500	.03250	-.05150	.00570	-.00110	.32750	.12130
1.460	4.220	-.00190	.02920	-.13500	.04430	-.01710	.32410	.12360
1.460	6.330	.00410	.02170	-.22280	.08500	-.03280	.32190	.12230
1.460	8.390	.00560	.01610	-.30950	.12180	-.04710	.32170	.11960
1.460	10.400	.00360	.01480	-.39760	.15570	-.06030	.31670	.12290
1.460	.040	-.00710	.03240	.03290	-.03410	.01380	.32730	.12030
	GRADIENT	-.00013	.00089	-.04048	.01884	-.00765	-.00004	.00029

RUN NO. 163/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.963	-10.470	-.02680	.03140	.43640	-.18180	.06910	.30630	.09110
1.963	-8.450	-.01900	.02890	.34570	-.14520	.05570	.30340	.08880
1.963	-6.330	-.01320	.02550	.25960	-.11250	.04350	.30270	.08970
1.963	-4.190	-.00640	.02480	.18080	-.08340	.03280	.30350	.09290
1.963	-2.090	-.00340	.02590	.10120	-.05400	.02100	.30300	.09160
1.963	.000	-.00020	.02240	.02010	-.02040	.00840	.30580	.08920
1.963	2.120	.00140	.02400	-.06310	.01600	-.00450	.30320	.09030
1.963	4.210	.00050	.02200	-.14280	.04620	-.01620	.30420	.09010
1.963	6.400	.00170	.02010	-.23570	.08320	-.02960	.30220	.08810
1.963	8.490	-.00280	.02170	-.31990	.11630	-.04190	.29690	.08690
1.963	10.500	-.00440	.02180	-.41240	.15410	-.05620	.29670	.08680
1.963	.020	.00090	.02270	.01550	-.01700	.00650	.29780	.08660
	GRADIENT	.00089	-.00036	-.03862	.01567	-.00588	.00008	-.00033

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77029) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	8.000
PHI =	60.000	ORBINC =	.000
RUDDER =	15.000	AILRON =	.000

RUN NO. 20/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.190	-.03590	.03600	.37220	-.12940	.04670	.27380	.04490
2.990	-8.260	-.03290	.03580	.30330	-.10390	.03800	.26920	.04580
2.990	-6.180	-.03030	.03470	.23050	-.07960	.02930	.26560	.04520
2.990	-4.120	-.02760	.03550	.15770	-.05670	.02190	.25970	.04500
2.990	-2.050	-.02930	.03600	.08770	-.03570	.01360	.25740	.04470
2.990	.000	-.02500	.03390	.01190	-.01170	.00430	.25620	.04530
2.990	2.070	-.02070	.03220	-.06660	.01320	-.00470	.25500	.04490
2.990	4.110	-.02210	.03140	-.13750	.03530	-.01330	.25640	.04470
2.990	6.240	-.01970	.02850	-.21410	.06000	-.02170	.26080	.04520
2.990	8.280	-.02120	.02770	-.28410	.08090	-.02950	.26350	.04490
2.990	10.230	-.02210	.02870	-.35220	.10500	-.03850	.26570	.04480
	GRADIENT	.00097	-.00058	-.03619	.01132	-.00431	-.00044	-.00002

RUN NO. 21/ 0 RN/L = 4.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.959	-10.030	-.04410	.04180	.31380	-.11770	.03430	.24630	.01220
4.959	-8.130	-.04100	.03860	.25090	-.08890	.02670	.23670	.01250
4.959	-6.090	-.04430	.03820	.18160	-.05730	.01880	.22800	.01270
4.959	-4.060	-.04180	.04040	.12020	-.03500	.01240	.22270	.01290
4.959	-2.030	-.04010	.03870	.06340	-.02040	.00700	.22210	.01270
4.959	.000	-.04160	.03960	.00520	-.00600	.00260	.22220	.01330
4.959	2.030	-.04010	.03790	-.05320	.00750	-.00310	.22100	.01260
4.959	4.070	-.03830	.03940	-.10830	.02130	-.00780	.21980	.01300
4.959	6.160	-.03300	.03590	-.16970	.04160	-.01410	.22190	.01310
4.959	8.160	-.03660	.03470	-.23900	.07100	-.02080	.22940	.01330
4.959	10.080	-.03340	.03380	-.30340	.10100	-.02870	.23760	.01360
	GRADIENT	.00034	-.00014	-.02823	.00691	-.00249	-.00034	.00000

M556(IA1) NAR ATP BL LV (O2) (T1) (S1) (R77030) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 6.000
PHI = 80.000 ORBINC = .000
RUDDER = 15.000 AILRON = .000

RUN NO. 64/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.597	-10.560	-.75220	.28930	.11370	-.08310	.02960	.14850	.12580
.597	-8.560	-.63330	.25650	.11740	-.08430	.02970	.14680	.12940
.597	-6.460	-.50160	.21620	.11450	-.08320	.02980	.15220	.12580
.597	-4.350	-.38800	.18160	.10870	-.08010	.02900	.15380	.12710
.597	-2.300	-.28170	.14720	.10070	-.07470	.02830	.15970	.11900
.597	-.190	-.17210	.11450	.10090	-.07420	.02890	.15960	.11440
.597	1.890	-.05390	.07530	.10240	-.07230	.02960	.15310	.11250
.597	3.970	.05900	.03580	.09630	-.06980	.02940	.15030	.11060
.597	6.080	.18240	-.00300	.09160	-.06670	.03040	.14330	.11060
.597	8.160	.29800	-.04090	.09190	-.06570	.03060	.13760	.10660
.597	10.130	.41350	-.07560	.09040	-.06360	.03040	.12930	.10470
.597	-.190	-.16550	.11300	.10450	-.07540	.02910	.15820	.11650
	GRADIENT	.05386	-.01745	-.00111	.00110	.00010	-.00065	-.00190

RUN NO. 65/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.801	-10.630	-.79850	.30990	.09990	-.07550	.02760	.18800	.14030
.801	-8.790	-.65760	.26900	.10050	-.07500	.02670	.18960	.13720
.801	-6.640	-.52870	.23120	.10050	-.07410	.02640	.18700	.13960
.801	-4.470	-.40270	.19400	.10050	-.07380	.02680	.18630	.13690
.801	-2.360	-.28730	.15880	.09660	-.07190	.02650	.18500	.13320
.801	-.230	-.17440	.12470	.09420	-.07040	.02650	.17710	.13160
.801	1.920	-.05160	.08390	.08920	-.06680	.02720	.17320	.12790
.801	4.060	.07050	.03590	.08760	-.06500	.02720	.17140	.12250
.801	6.190	.19830	-.01010	.08770	-.06370	.02790	.16700	.11860
.801	8.320	.32590	-.05660	.08780	-.06350	.02880	.15860	.11650
.801	10.330	.44160	-.09530	.08820	-.06180	.02910	.15250	.11530
.801	-.200	-.17110	.12400	.09800	-.07120	.02690	.17670	.13320
	GRADIENT	.05540	-.01833	-.00156	.00106	.00007	-.00195	-.00160

M556(IA1) NAR ATP BL LV (O2)(T1)(S1) (R77031) (27 NOV 72)

REFERENCE DATA

SREF =	7.4190 SQ.IN.	XMRP =	4.8200 IN.		
LREF =	5.3120 IN.	YMRP =	.0000 IN.		
BREF =	5.3120 IN.	ZMRP =	.0000 IN.		
SCALE =	.0040				

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	6.000
PHI =	80.000	ORBINC =	.000
RUDDER =	15.000	AILRON =	.000

RUN NO. 63/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.602	-10.050	-.03700	.03490	.39560	-.19700	.06860	.13440	.13490
.602	-8.140	-.04870	.04700	.33720	-.17400	.06330	.13840	.13040
.602	-6.100	-.06270	.06130	.27650	-.15140	.05820	.14310	.12500
.602	-4.040	-.07210	.06730	.21220	-.12720	.05130	.14990	.11750
.602	-2.010	-.08360	.08030	.13990	-.09260	.03900	.15210	.12060
.602	.020	-.08530	.08480	.06640	-.05930	.02660	.15830	.11480
.602	2.050	-.08770	.08770	-.00940	-.02530	.01430	.15670	.11770
.602	4.100	-.08770	.08860	-.08440	.01080	.00140	.14920	.12400
.602	6.160	-.08070	.08320	-.16280	.05040	-.01260	.14400	.12630
.602	8.180	-.06520	.07210	-.23820	.08760	-.02620	.13880	.13050
.602	10.100	-.05400	.06340	-.30470	.11790	-.03550	.12910	.13930
.602	.020	-.08970	.08730	.06290	-.05720	.02560	.15620	.11750
	GRADIENT	-.00173	.00246	-.03650	.01688	-.00612	.00016	.00050

RUN NO. 62/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.800	-10.140	-.05300	.05600	.42550	-.21380	.07290	.14990	.16020
.800	-8.200	-.05660	.06230	.35920	-.19080	.06570	.15580	.15070
.800	-6.130	-.06670	.07250	.30180	-.17480	.06250	.16120	.14280
.800	-4.060	-.07240	.08080	.22210	-.13560	.05160	.16590	.13720
.800	-2.020	-.08250	.09150	.14400	-.09480	.03840	.16820	.13730
.800	.020	-.08520	.09640	.06500	-.05660	.02500	.17570	.13130
.800	2.080	-.08840	.09910	-.01680	-.01900	.01160	.17560	.13150
.800	4.100	-.08400	.09600	-.09620	.02110	-.00170	.17410	.13190
.800	6.200	-.07570	.08700	-.18170	.06680	-.01610	.16820	.13370
.800	8.210	-.06050	.07150	-.26370	.10750	-.02930	.16080	.14080
.800	10.170	-.04570	.06120	-.33590	.13860	-.04090	.15360	.14750
.800	.020	-.08370	.09670	.06190	-.05520	.02390	.17330	.13490
	GRADIENT	-.00143	.00186	-.03905	.01906	-.00653	.00117	-.00080

M556(IA1) NAR ATP BL LV (T2) (R77032) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 10.000

RUN NO. 144/ 0 RN/L = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.250	-.09130	-.01020	.01030	-.00160	-.00010	.05650	.01750
.900	-8.310	-.06890	-.00800	.00970	-.00070	-.00010	.05270	.01590
.900	-6.250	-.04750	-.01000	.01120	.00030	.00000	.06070	.01230
.900	-4.210	-.03160	-.00620	.01000	.00060	.00010	.06130	.00770
.900	-2.170	-.01670	-.00280	.00940	.00110	.00000	.06140	.00510
.900	-.150	.00200	-.00050	.01020	.00100	.00000	.05890	.00390
.900	1.870	.02070	-.00030	.00830	.00210	-.00010	.05920	.00680
.900	3.910	.03580	.00260	.00710	.00340	-.00030	.04830	.01830
.900	6.030	.05810	.00220	.01210	.00550	.00000	.03600	.03130
.900	8.050	.07270	.00570	.00990	.00390	.00010	.02780	.03920
.900	9.970	.09230	.00870	.01220	.00360	.00000	.02720	.04150
.900	-.130	.00080	.00210	.01160	.00120	.00000	.05670	.00480
	GRADIENT	.00849	.00099	-.00034	.00033	-.00004	-.00139	.00113

RUN NO. 145/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.196	-10.290	-.08020	-.02520	.01370	-.00230	-.00050	.09620	.03660
1.196	-8.360	-.06170	-.02120	.01220	-.00170	-.00030	.09830	.03400
1.196	-6.330	-.04520	-.01620	.01180	-.00090	-.00050	.10130	.02880
1.196	-4.230	-.02670	-.01120	.01190	-.00030	-.00040	.10490	.02490
1.196	-2.180	-.01250	-.00680	.00980	.00050	-.00040	.10600	.02360
1.196	-.130	.00380	-.00270	.01000	.00100	-.00040	.10500	.02380
1.196	1.910	.01910	.00230	.01010	.00150	-.00030	.10360	.02560
1.196	3.960	.03450	.00730	.01020	.00230	-.00040	.10180	.02810
1.196	6.110	.05070	.01250	.01030	.00230	-.00040	.10150	.02820
1.196	8.100	.06710	.01770	.01100	.00300	-.00030	.09890	.03170
1.196	10.020	.08780	.02150	.01050	.00350	-.00060	.09690	.03460
1.196	-.130	.00380	-.00160	.01050	.00080	-.00050	.10430	.02520
	GRADIENT	.00752	.00225	-.00015	.00030	.00000	-.00042	.00041

M356(IA1) NAR ATP BL LV (T1) (R77033) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 9.000

RUN NO. 147/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.240	-.09410	-.01200	.01080	-.00180	.00000	.04360	.01980
.900	-8.320	-.07290	-.00930	.01170	-.00090	.00000	.04660	.01550
.900	-6.290	-.04750	-.01070	.01120	.00030	.00000	.04820	.01220
.900	-4.230	-.03310	-.00740	.00940	.00090	.00000	.04720	.00820
.900	-2.190	-.01530	-.00360	.01070	.00080	.00000	.04720	.00680
.900	-.150	.00340	-.00220	.01090	.00160	.00000	.04860	.00560
.900	1.870	.02080	-.00070	.00900	.00250	.00000	.04660	.00710
.900	3.910	.03720	.00310	.00920	.00330	.00010	.03770	.01640
.900	6.040	.05880	.00370	.00800	.00410	.00000	.02350	.03220
.900	8.060	.07630	.00710	.00870	.00420	.00000	.01970	.03850
.900	9.990	.09750	.00960	.00950	.00460	.00000	.01620	.04340
.900	-.130	.00480	-.00100	.01160	.00150	.00000	.04760	.00450
	GRADIENT	.00869	.00116	-.00010	.00032	.00001	-.00096	.00082

RUN NO. 146/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.196	-10.320	-.08020	-.02650	.01320	-.00250	-.00020	.09440	.03660
1.196	-8.360	-.06180	-.02250	.01230	-.00160	-.00030	.09510	.03550
1.196	-6.300	-.04310	-.01690	.01240	-.00080	-.00020	.09790	.02970
1.196	-4.230	-.02780	-.01240	.01090	.00020	-.00020	.10040	.02630
1.196	-2.200	-.01250	-.00660	.01100	.00020	-.00020	.10020	.02560
1.196	-.130	.00380	-.00270	.01000	.00110	-.00020	.10040	.02550
1.196	1.910	.01910	.00250	.01010	.00160	-.00020	.09880	.02760
1.196	3.960	.03440	.00760	.00920	.00250	-.00020	.09930	.02700
1.196	6.110	.05080	.01280	.00930	.00300	-.00030	.09930	.02820
1.196	8.110	.06810	.01810	.00940	.00360	-.00030	.09610	.03280
1.196	10.050	.08870	.02240	.01000	.00360	-.00010	.09450	.03530
1.196	-.130	.00500	-.00150	.01110	.00130	-.00020	.09910	.02660
	GRADIENT	.00761	.00240	-.00021	.00029	-.00000	-.00018	.00017

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77034) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = 10.000

RUN NO. 161/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLN	CY	CYN	CBL	CAF	CAB
1.964	-11.350	-.72210	.22650	.02890	-.01320	.01310	.31040	.09240
1.964	-9.180	-.56730	.17580	.03650	-.01700	.01330	.30560	.09260
1.964	-6.900	-.42000	.13310	.03390	-.01450	.01320	.30230	.09060
1.964	-4.640	-.28560	.09860	.03430	-.01400	.01340	.30160	.09150
1.964	-2.400	-.16880	.07150	.03310	-.01360	.01360	.30290	.09120
1.964	-.160	-.06060	.04650	.03520	-.01570	.01390	.30380	.09230
1.964	2.020	.04560	.02010	.03620	-.01540	.01470	.30050	.09120
1.964	4.230	.14640	-.00590	.03690	-.01500	.01500	.29470	.08960
1.964	6.490	.26030	-.02860	.03970	-.01630	.01560	.29430	.09030
1.964	8.740	.37260	-.04950	.04550	-.01640	.01640	.29130	.08950
1.964	10.870	.46980	-.05940	.05340	-.02200	.01740	.28810	.08830
1.964	-.140	-.05210	.04540	.03490	-.01500	.01370	.30030	.08920
	GRADIENT	.04867	-.01175	.00037	-.00017	.00019	-.00073	-.00017

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77035) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.8200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = .000 AILRON = 10.000

RUN NO. 162/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLN	CY	CYN	CBL	CAF	CAB
1.965	-10.500	-.04090	.03690	.42490	-.16670	.07250	.30740	.09270
1.965	-8.480	-.03970	.04010	.33270	-.12860	.05910	.30530	.09060
1.965	-6.350	-.03580	.03990	.24350	-.09420	.04590	.30480	.09070
1.965	-4.210	-.03470	.04060	.16070	-.06360	.03440	.30300	.09220
1.965	-2.100	-.03450	.04490	.08210	-.03440	.02220	.30240	.09270
1.965	-.010	-.03220	.04500	.00390	-.00290	.01030	.30410	.09130
1.965	2.100	-.03480	.04650	-.07760	.03060	-.00200	.29910	.09130
1.965	4.230	-.03630	.05010	-.15700	.06170	-.01370	.30030	.09330
1.965	6.350	-.04110	.05170	-.24330	.09460	-.02560	.30210	.09060
1.965	8.500	-.04480	.05330	-.33470	.12950	-.03860	.30370	.08900
1.965	10.510	-.04730	.05400	-.42650	.16690	-.05210	.30240	.08880
1.965	.000	-.03360	.04570	-.00090	.00000	.00860	.29940	.08860
	GRADIENT	-.00017	.00107	-.03772	.01497	-.00571	-.00041	.00004

M556(IA1) NAR ATP BL LV (O1)(T1)(S1) (R77036) (27 NOV 72)

REFERENCE DATA

SREF = 7.4190 SQ.IN. XMRP = 4.6200 IN.
LREF = 5.3120 IN. YMRP = .0000 IN.
BREF = 5.3120 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 8.000
PHI = 80.000 ORBINC = -1.200
RUDDER = 15.000 AILRON = .000

RUN NO. 164/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.964	-11.340	-.72450	.23160	.05160	-.04260	.01390	.31150	.08950
1.964	-9.170	-.57100	.18110	.05830	-.04440	.01380	.30550	.08980
1.964	-6.900	-.42310	.13810	.05420	-.03960	.01340	.30290	.08760
1.964	-4.610	-.28680	.10260	.05390	-.03660	.01310	.30060	.08840
1.964	-2.400	-.17020	.07460	.05220	-.03460	.01300	.30180	.08800
1.964	-.180	-.06310	.05030	.05050	-.03370	.01290	.30390	.08800
1.964	2.040	.04150	.02400	.05000	-.03170	.01300	.29840	.08770
1.964	4.210	.14150	-.00100	.05080	-.02970	.01320	.29480	.08800
1.964	6.520	.26000	-.02460	.05260	-.02880	.01360	.29240	.09100
1.964	8.740	.36360	-.04050	.05830	-.02750	.01430	.29020	.08930
1.964	10.860	.45610	-.04980	.06410	-.03130	.01530	.28300	.08800
1.964	-.150	-.05820	.04990	.05040	-.03320	.01280	.29910	.08530
	GRADIENT	.04839	-.01168	-.00038	.00076	.00001	-.00068	-.00005